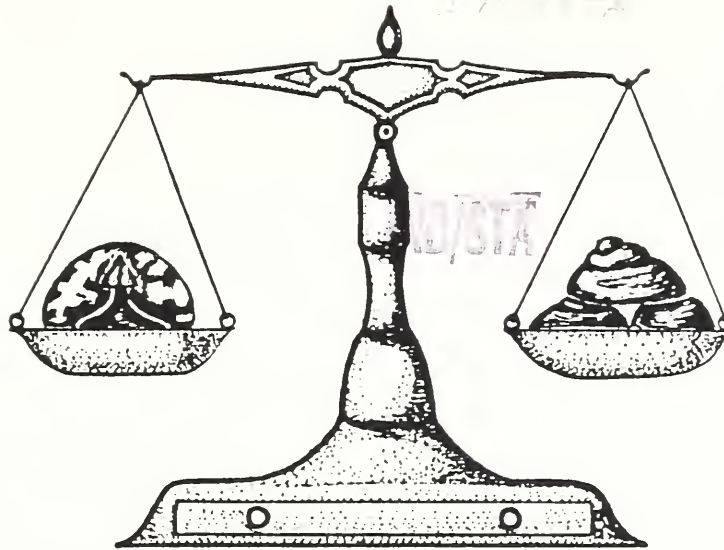


Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

THE SCALE



Editor:
Douglass R. Miller
Systematic
Entomology Lab.
Bldg. 003, Rm. 1
Beltsville, MD,
USA, 20705

Vol. IX, No. 1

November 1983

Note From the Editor

1204905

I must apologize for the change in title of this issue. Due to certain U. S. Department of Agriculture regulations, it has been necessary to alter the format and title of the "Coccidologist's Newsletter". I have decided to continue the volume numbers as if the name had not been changed. I am especially grateful to John A. Davidson, University of Maryland, for designing and drawing the earlier cover of the "Coccidologist's Newsletter" and the "letterhead" of "The Scale." I hope this does not cause too much inconvenience.

News

Perhaps now, after talking to several of you at the meetings in Budapest, more people will consider writing a short note about their scale insect studies and experiences. As many of you may know, "The Scale" was intended to be a forum for news. Unfortunately, it has not served this role because most have chosen not to take the time to sit down and write a little recent news about themselves. Examples of the kinds of information appropriate for the "news" section are given in earlier newsletters and below.

1. From Dug Miller, Beltsville, Maryland, USDA. "This past summer my wife and I were fortunate enough to undertake some foreign travel. I first spent a week at the British Museum (Natural History) working on a paper with Douglas Williams. Unfortunately time was short, and I really did not have much opportunity to study material other than that appropriate for our paper. Needless to say, I was very impressed with the collection and would have enjoyed spending considerable more time looking at specimens. It was

pleasant to have time to talk with Douglas Williams and Jennifer Cox about research of mutual interest. They both are very knowledgeable and are extremely enthusiastic about scales. They made our stay in England most rewarding.

From London we traveled to Budapest where we stayed for five days and attended the "Fourth International Congress of Coccidology." The meetings were far more successful than I had expected. The organizers--Ferenc Kozar, Michael Kosztarab, Gizella Vinis, and Gizella Ordogh are to be congratulated for setting up such a highly informative and enjoyable set of meetings. They did everything possible to instill a friendly and highly interactive atmosphere, and it is my opinion that they were the most successful meetings to date. For me, it was especially useful to meet many people for the first time who I have corresponded with for years.

From Budapest Judy went home and I traveled to Shanghai where I studied with Professor Yang Ping-lan at the Shanghai Institute of Entomology, Academia Sinica. We are studying the status of the Matsucoccus species that are similar to M. matsumurae. We spent two full weeks looking at all available material and generated a mass of useful data. We intend to complete the research this summer when Prof. Yang visits Beltsville. Professor Yang was a most thoughtful and generous host.

From Shanghai I traveled to Hangzhou where I visited the Zhejiang Forestry Institute. Again, I was impressed with the work that is being done there. The methods for control of Matsucoccus are unbelievably labor intensive but are effective. For the last several days of my visit I was in Beijing talking with scientists at the Institute of Zoology, Academia Sinica. The hospitality again was overwhelming. I had the opportunity to look briefly at the scale insect collection and to discuss problems of mutual interest with the coccidologist at the Institute, Mr. Wang Zi Qing. In addition to Mr. Wang, I am grateful to Professors Chu Hung-fu, Chao Chien-Ming, and Xiong Yao, and to Mr. Pan Han for their extensive assistance while I was in Beijing. They made my visit there a most rewarding experience.

My Chinese experiences were quite memorable. I enjoyed every aspect of my stay and became so comfortable with chopsticks, that a knife, fork, and spoon were used somewhat hesitantly when I returned home. I was truly overwhelmed by the attention that I received while in China. There was some discussion about the possibility of holding the next International Meeting of Coccidology in Shanghai, but I guess this site will have to wait for meeting VI. It would be a very desirable place to hold a meeting.

The Fourth International Symposium of Scale Insect Studies (ISSIS-IV)

Michael Kosztarab

Department of Entomology, Virginia Polytechnic Institute
and State University, Blacksburg, VA

The meeting was held at the Hungarian Academy of Sciences, in Budapest, between August 16 and 19, 1983 honoring Professor A. S. Balachowsky.

Dr. F. Kozar and I co-chaired the organizational committee of the meeting. It was the largest international gathering of coccidologists to date with about 40 participants from 16 countries. The program included 34 talks, two poster presentations, two round-table discussions, and a full day collecting trip to Kiskunsagi National Park in Central Hungary. The trip provided a break from the sessions, and some entertainment for the participants, as did the official symposium banquet in the Hotel Gellért and the two informal private parties.

During the round-table discussions and business meetings topics included the need for preparation of species catalogues, collection inventories, and standardization of Coccoidea morphological terms in English. Most of the participants volunteered to assist with filling of voids. An organizational committee was formed, to be co-chaired by Dr. E. Tremblay and Dr. A. Tranfaglia. They will organize ISSIS-V in Portici, Italy, during 1986, probably at the end of June. Please plan your participation now.

A more detailed summary of the two business meetings and round-table discussions will be printed in the Proceedings of ISSIS-IV. The volume includes the papers presented (about 150 pages) and will be mailed to the participants during 1984. If non-participants want copies of the Proceedings, they should contact Ferenc Kozar, Research Institute for Plant Protection, H-1525 Budapest Pf. 102, Herman O.u.15, Hungary, as soon as possible. These probably will be available for a fee if enough orders are received this fall.

AUBURN UNIVERSITY COCCOIDEA COLLECTION

by Charles H. Ray, Jr., Michael L. Williams, and Ida E. Daniels

Department of Zoology-Entomology and

Agricultural Experiment Station

Auburn University, Alabama

The Auburn University Coccoidea Collection consists of approximately 15,000 slides and is housed in Funchess Hall on the Auburn University Campus. Inquiries about the collection should be made to: Dr. Michael L. Williams
Department of Zoology-Entomology, Auburn University, AL 36849, Phone: (205) 826-4850

The collection was begun in 1973 by Dr. Williams. The bulk of the material has been prepared by personnel of the Department of Zoology-Entomology of Auburn University including the following individuals: Ida E. Daniels, Barbara J. Muse and Charles H. Ray, Jr. with the assistance of many student workers. Also housed at Auburn, but not included in this catalog, is the collection of R. F. Wilkey and a collection of Coccoidea from Ecuador and the Galapagos Islands. For each species the 3-digit number to the right refers to the number of slides in the collection, a 'P' indicates at least 1 Paratype, 'T' at least 1 Topotype, 'C' at least 1 Cotype, and an 'L' at least 1 slide labeled "part of lectotype material." The next series of letters indicates the stages that we have represented in our material. An 'A' represents adult female, 'B' third-stage female, 'C' second-stage female, 'D' first-stage female, 'E' adult male, 'F' pupal male, 'G' prepupal male, 'H' third-stage male, 'I' second-stage male, and 'J' first-stage male.

ACLERDIDAE

Aclerda	andropogonis	McConnell	002P	AC
Aclerda	ariditas	Ferris	002T	AD
Aclerda	arizonica	McConnell	002P	AD
Aclerda	arundinariae	McConnell	059P	ADEF
Aclerda	attenuata	Ferris	002	AD
Aclerda	balachowskyi	McConnell	002P	AD
Aclerda	berlesii	Buffa	002	AD
Aclerda	californica	(Ehrhorn)	002T	AD
Aclerda	chiriquiensis	McConnell	002P	AD
Aclerda	chusqueae	McConnell	002P	AD
Aclerda	distorta	Green	001P	A
Aclerda	ferrisi	McConnell	002PA	D
Aclerda	holci	Teague	001	A
Aclerda	ischaemi	Ramakrishna	002L	AD

Aclerda	marylandica	McConnell	018P	ABCD
Aclerda	mexicana	McConnell	001	D
Aclerda	oaxacaensis	McConnell	001T	A
Aclerda	obscura	(Parrott)	002	A
Aclerda	pasquieri	Balachowsky	001	D
Aclerda	sacchari	Teague	001P	D
Aclerda	simplicis	McConnell	002P	AD
Aclerda	subterranea	Signoret	002	AD
Aclerda	takahashii	Kuwana	002	AD
Aclerda	texana	McConnell	027P	ADE
Aclerda	tokionis	(Cockerell)	002	AD
Aclerda	xalapenseae	McConnell	001P	A
Aclerda	sp.		001	
Rhodesaclerda	combreticola	McConnell	003P	AD
Rhodesaclerda	halli	McConnell	002TP	AD

APIOMORPHIDAE

Apiomorpha	munita	(Schrader)	009	A
Apiomorpha	sp.		011	AD

ASTEROLECANIIDAE

Asterolecanium	bambusae	Boisduval	017	AD
Asterolecanium	milaris	Boisduval	008	AD
Asterolecanium	minus	Lindinger	010	A
Asterolecanium	pustulans	(Cockerell)	021	ACD
Asterolecanium	puteum	Russell	009	A
Asterolecanium	sp.		012	ACD
Eremococcus	pirogallis	(Maskell)	006	A

BEESONIIDAE

Beesonia	dipterocarpi	Green	019	
----------	--------------	-------	-----	--

CEROCOCCIDAE

Cerococcus	deklei	Kosz. & Vest	022	ACD
Cerococcus	kalmiae	Ferris	016	AG
Cerococcus	koebelei	(Cockerell)	002T	A
Cerococcus	parrotti	(Hunter)	009	ADE

COCCIDAE

Akermes	bruneri	Cockerell	013	A
Alecanium	hirsutum	Morrison	007	ACD
Alichtensia	misiones	(Morrison)	008	AE
Alichtensia	orientalis	Lahille	010	ABD
Austrolichtensia	hakearum	(Fuller)	010	AD
Ceroplastes	ceriferus	(Fabricius)	097	ABD
Ceroplastes	cirripediformis	Comstock	054	ABC
Ceroplastes	floridensis	Comstock	084	ABCD
Ceroplastes	irregularis	Cockerell	031	A
Ceroplastes	japonica	Green	001	A
Ceroplastes	nakaharai	Gimpel	001	A
Ceroplastes	rubens	Maskell	005	AD

Ceroplastes	rusci	(Linnaeus)	002	A
Ceroplastes	sinensis	Del Guercio	019	AD
Ceroplastes	utilis	Cockerell	001	A
Ceroplastes	sp.		003	B
Ceroplastodes	acaciae	Cockerell	003	A
Ceroplastodes	cajani	(Maskell)	010	A
Ceroplastodes	chiton	Green	014	AD
Ceroplastodes	costa-limae	Bondar	005	A
Ceroplastodes	daleae	Cockerell	007	A
Ceroplastodes	deani	Lawson	005	A
Ceroplastodes	dugeseii	("Lich.", Sign.)	006	A
Ceroplastodes	melzeri	Bondar	003	A
Ceroplastodes	theobromae	Bondar	009	A
Coccus	acutissimus	(Green)	022	ABD
Coccus	aequale	(Newstead)	012	ABDFI
Coccus	bicruciatu	(Green)	009	AD
Coccus	capparidis	(Green)	026	ABCD
Coccus	caudatus	(Green)	006	AC
Coccus	caviramicolus	Morrison	005	A
Coccus	discrepans	(Green)	007	A
Coccus	hesperidum	Linnaeus	210	ABCD
Coccus	longulus	(Douglas)	057	ABCD
Coccus	pseudohesperidum	(Cockerell)	002	A
Coccus	pseudomagnoliarum	(Kuwana)	002	A
Coccus	viridis	(Green)	119	ABCDEFGFI
Cribrolecanium	sp.		011	ABC
Cryptes	baccatus	(Maskell)	004	A
Cryptostigma	biorbiculus	Morrison	003	AD
Cryptostigma	quinquepori	(Newstead)	013	AB
Cryptostigma	secretus	(Morrison)	023	AB
Cryptostigma	sp.		001	A
Ctenochiton	aztecus	(Towns. & Ckll.)	047	ADI
Ctenochiton	viridis	Maskell	004	AD
Ctenochiton	sp.		024	ABDE
Cyclolecanium	hyperbaterum	Morrison	014	ABCD
Eriopeltis	coloradensis	Cockerell	008	A
Eriopeltis	festucae	(Fonscolombe)	019	ACDE
Eucalymnatus	tessellatus	(Signoret)	112	ABCD
Eulecanium	canadense	(Cockerell)	001	A
Eulecanium	caryae	(Fitch)	017	ACDEI
Eulecanium	cerasorum	(Cockerell)	061	ACD
Eulecanium	ciliatum	(Douglas)	001	A
Eulecanium	coryli	(Linnaeus)	005	ABCD
Eulecanium	excrescens	(Ferris)	003	A
Eulecanium	kunoensis	(Kuwana)	002	AB
Eulecanium	perinflatum	(Cockerell)	002	ABD
Filippia	sp.		001	A
Gascardia	destructor	(Newstead)	001	AB
Hemilecanium	imbricans	(Green)	013	AD
Inglisia	chelonoides	Green	006	A
Inglisia	vitrea	Cockerell	014	AD
Kilifia	acuminata	(Signoret)	138	ABCD
Kilifia	diversipes	(Cockerell)	009	AB
Kilifia	sp.		005	AB
Lecanium	sp.		136	AI
Lecanochiton	metrosideri	Maskell	008	A

Lichtensia	lutea	(Cockerell)	007	AB
Lichtensia	sp.		040	ABFI
Luzulaspis	frontalis	Green	001	A
Luzulaspis	luzulae	(Dufour)	004	AD
Luzulaspis	nemorosa	Koteja	001P	A
Mesolecanium	impar	(Cockerell)	006	A
Mesolecanium	nigrofasciatum	(Pergande)	111	ACDF
Mesolecanium	nocturnum	(Ckll. & Parr.)	014	A
Mesolecanium	phoradendri	(Cockerell)	005	CI
Mesolecanium	perditum	(Cockerell)	010	ACD
Mesolecanium	sp.		006	AD
Neolecanium	cornuparvum	(Thro)	218	ABCDEFGF
Neolecanium	craspeditae	Morrison	020	ABCD
Neolecanium	derameliae	Morrison	033	ABDI
Neolecanium	herreriae	Cockerell	010	AD
Neolecanium	perconvexum	(Cockerell)	035	ABCDI
Neolecanium	tuberculatum	(Town. & Ckll.)	055	ABCDI
Parafairmaria	sp.(undescribed)		015	ADF
Paralecanium	metallicum	(Green)	008	A
Parasaissetia	nigra	(Nietner)	069	ABCD
Parthenolecanium	corni	(Bouche)	194	ABCDEFGF
Parthenolecanium	persicae	(Fabricius)	036	ABC
Parthenolecanium	pruinatum	(Coquillett)	001	A
Parthenolecanium	quercifex	(Fitch)	002	A
Parthenolecanium	rufulum	(Cockerell)	001	
Pendularia	pendens	Fonseca	002	A
Philephedra	broadwayi	(Cockerell)	004	D
Physokermes	piceae	(Schrank)	003	A
Physokermes	sp.		002	CD
Platinglisia	noacki	Cockerell	004	A
Platylecanium	fusiformi	(Green)	003	CJ
Platysaissetia	castilloae	(Cockerell)	004	A
Platysaissetia	montrichardiae	Newstead	009	A
Protopulvinaria	longivalvata	(Green)	019	ABCD
Protopulvinaria	mangiferae	(Green)	119	ABCDI
Protopulvinaria	pyriformis	(Cockerell)	206	ABCD
Pseudophilippia	quaintancii	Cockerell	336	ABCDEFGFI
Pulvinaria	acericola	(Walsh & Riley)	102	ABCDEFGFI
Pulvinaria	amygdali	Cockerell	007	AB
Pulvinaria	bigeloviae	Cockerell	004	A
Pulvinaria	citricola	Kuwana	047	AD
Pulvinaria	delottoi	Gill	002P	A
Pulvinaria	elongata	Newstead	001	A
Pulvinaria	ericicola	McConnell	033	AB
Pulvinaria	floccifera	(Westwood)	050	ABCD
Pulvinaria	hydrangeae	Steinweden	003	A
Pulvinaria	innumerabilis	(Rathvon)	095	ACD
Pulvinaria	mammeae	Maskell	002	A
Pulvinaria	mesembrianthemii	(Vallot)	005	A
Pulvinaria	occidentalis(nr.)		006	A
Pulvinaria	plucheae	Ehrhorn	007	AD
Pulvinaria	psidii	Maskell	083	ABCD
Pulvinaria	regalis		003	A
Pulvinaria	salicorniae	Froggatt	002	A
Pulvinaria	simulans	Cockerell	004	A
Pulvinaria	thespesiae	Green	002	DF

Pulvinaria	urbicola	Cockerell	060	ABCD
Pulvinaria	vitis	(Linnaeus)	012	A
Pulvinaria	sp.(undescribed)		015	ABCEFGI
Pulvinaria	sp.		048	
Saissetia	coffaeae	(Walker)	186	ABCD
Saissetia	miranda	(Ckll. & Parr.)	085	ABCD
Saissetia	neglecta	DeLotto	017	AC
Saissetia	oleae	(Olivier)	014	A
Schizochlamidia	mexicana	Ckll. & Parr.	011	ABCD
Sphaerolecanium	prunastri	Fonscolombe	008	ABC
Stictolecanium	sp.		008	AFG
Takahashia	japonica	(Cockerell)	007	A
Tectopulvinaria	loranthi	Froggatt	004	AD
Toumeyella	cerifera	Ferris	161	ABDEFGI
Toumeyella	corrugatum	(Thro)	012	BCDFI
Toumeyella	liriodendri	(Gmelin)	207	ABCDEF
Toumeyella	mirabilis	(Cockerell)	056	ABCDFI
Toumeyella	nectandra	Hempel	001	A
Toumeyella	parvicornis	(Cockerell)	582	ABCDEF
Toumeyella	paulista	Hempel	001C	A
Toumeyella	pini	(King)	158	ABCDEF
Toumeyella	pinicola	Ferris	016	ABE
Toumeyella	quadrafasciata	(Cockerell)	007	A
Toumeyella	sonorensis	(Ckll. & Parr.)	018	A
Toumeyella	turgida	(Cockerell)	007T	A
Toumeyella	virginiana	Wms. & Kosz.	260	ABCDEF
Toumeyella	sp.(undescribed)		007	A
Toumeyella	sp.		466	ABCDEF
Vinsonia	stellifera	(Westwood)	006	A
Unidentified Coccidae			081	

CONCHASPIDIDAE

Conchaspis	angraeci	Cockerell	055	ACDE
------------	----------	-----------	-----	------

DACTYLOPIIDAE

Dactylopius	ceylonicus	Green	017	AEFG
Dactylopius	confusus	Cockerell	032	ACD
Dactylopius	opuntiae	(Cockerell)	001	A
Dactylopius	tomentosus	Lamarack	001	AC

DIASPIDIDAE

Abgrallaspis	comstocki	(Johnson)	014	ACDEF
Abgrallaspis	cyanophylli	(Signoret)	081	ACDEF
Abgrallaspis	degeneratus	(Leonardi)	001	A
Abgrallaspis	ithacae	(Ferris)	002	AF
Abgrallaspis	townsendi	(Cockerell)	019	AC
Abgrallaspis	sp.		007	ACI
Acutaspis	morrisonorum	Kosztarab	026	AC
Acutaspis	perseae	(Comstock)	025	ACF
Aonidia	atlantica	Ferris	001	A
Aonidia	shastae	(Coleman)	001	A
Aonidiella	aurantii	(Maskell)	003	A
Aonidiella	orientalis	(Newstead)	010	ACD

Aonidiella	taxus	Leonardi	044	ACDG
Aonidomytilus	brachystegiae	(Hall)	019	ACE
Aonidomytilus	ceanothi	(Ferris)	003	ACG
Aonidomytilus	concolor	(Cockerell)	023T	A
Aonidomytilus	crookiae	(Ferris)	040	ACDEF
Aonidomytilus	espinosai	(Porter)	012	A
Aonidomytilus	hyperici	Ferris	074	ACDEFI
Aonidomytilus	multiglandulatus	Kosztarab	007	AC
Aonidomytilus	solidaginis	(Hoke)	317	ACDEFG
Aonidomytilus	sp.		001	
Aspidiella	sacchari	(Cockerell)	026	ACDFI
Aspidiotus	cryptomeriae	Kuwana	021	ACF
Aspidiotus	destructor	Signoret	066	ACDEFGJ
Aspidiotus	hederae	(Vallot)	001	A
Aspidiotus	nerii	Bouche	045	ACDFGI
Aspidiotus	spinosus	Comstock	017	ACI
Aspidiotus	sp.		011	AC
Aulacaspis	rosae	(Bouche)	003	A
Carulaspis	juniperi	(Bouche)	036	ACDEI
Carulaspis	minima	(Targ.-Tozz.)	028	AC
Carulaspis	visci	(Schrank)	001	A
Chionaspis	americana	Johnson	021	ACD
Chionaspis	furfura	(Fitch)	003	A
Chionaspis	gleditsiae	Sanders	001	A
Chionaspis	heterophyllae	Cooley	084	ACD
Chionaspis	nr.lintneri		006	AF
Chionaspis	longiloba	Cooley	018	ACD
Chionaspis	nyssae	Comstock	088	ACEFGI
Chionaspis	pinifoliae	(Fitch)	153	AC
Chionaspis	salicisnigrae	(Walsh)	023	AC
Chortinaspis	divaricata	Ferris	001	A
Chortinaspis	subchortina	(Laing)	007	AC
Chrysomphalus	aonidium	(Linnaeus)	112	AC
Chrysomphalus	bifasciculatus	Ferris	002	A
Chrysomphalus	dictyospermi	(Morgan)	005	A
Chrysomphalus	ficus	Ashmead	001	A
Circulaspis	fistulella	Ferris	001	A
Clavaspis	herculeana	(Doane & Hadden)	015	AC
Comstockiella	sabalis	(Comstock)	077	ACDFGI
Cupidaspis	beshearae	Howell & Tippins	003P	A
Diaspidiotus	ancylus	(Putnam)	107	ACDF
Diaspidiotus	coniferarum	(Cockerell)	037	ACD
Diaspidiotus	cryptus	Cockerell	012	ADEF
Diaspidiotus	crystallinus	Ferris	004	A
Diaspidiotus	ehrhorni	(Coleman)	001	A
Diaspidiotus	hunteri	(Newell)	015	AC
Diaspidiotus	liquidambaris	(Kotinsky)	037	AC
Diaspidiotus	mccombi	McKenzie	023	ACD
Diaspidiotus	osborni	(Newell & Ckll.)	031	ACE
Diaspidiotus	uvae	(Comstock)	001	A
Diaspidiotus	sp.		007	A
Diaspis	boisduvalii	Signoret	077	ACDEFGI
Diaspis	echinocacti	(Bouche)	035	ACD
Diaspis	manzanitae	(Whitney)	022	ACDE
Diaspis	sp.(undescribed)		009	ACFI
Duplaspidiotus	clavigera	(Cockerell)	006	A

Dynaspidiotus	brittannicus	(Newstead)	004	A
Fiorinia	externa	Ferris	005	AC
Fiorinia	fioriniae	(Targ.-Tozz.)	045	ACD
Fiorinia	japonica	(Kuwana)	001	A
Fiorinia	pinicola	Maskell	001	A
Fiorinia	theae	Green	038	ACD
Furchadiaspis	zamia	(Morgan)	001	A
Gymnaspiis	aechmeae	Newstead	011	ACDGI
Haliaspiis	spartinae	(Comstock)	094	ACDFGI
Haliaspiis	nakaharai	Howell	003P	A
Hemiberlesia	diffinis	(Newstead)	015	AC
Hemiberlesia	lataniae	(Signoret)	136	ACDF
Hemiberlesia	rapax	(Comstock)	018	ACD
Howardia	biclavis	(Comstock)	013	A
Ischnaspiis	longirostris	(Signoret)	022	ACDF
Kuwanaspiis	hikosani	(Kuwana)	001	C
Kuwanaspiis	howardi	(Cooley)	001	A
Kuwanaspiis	pseudaulacaspiis	(Kuwana)	001	A
Lepidosaphes	beckii	(Newman)	037	ACFI
Lepidosaphes	camelliae	Hoke	058	ACDEFG
Lepidosaphes	gloverii	(Packard)	019	AC
Lepidosaphes	pallida	(Maskell)	023	ACDEG
Lepidosaphes	ulmi	(Linnaeus)	065	AC
Lepidosaphes	sp.		003	
Lineaspiis	cupressi	(Coleman)	011	ACD
Lopholeucaspiis	japonica	(Cockerell)	021	A
Melanaspiis	latipyga	Ferris	003	A
Melanaspiis	nigropunctata	(Cockerell)	006	AD
Melanaspiis	obscura	(Comstock)	028	ACI
Melanaspiis	smilacis	(Comstock)	018	A
Melanaspiis	tenebricosa	(Comstock)	037	AEF
Melanaspiis	sp.		009	
Neopinnaspiis	harperi	McKenzie	014	A
Niveaspiis	ilicis	(Hoke)	001	
Nuculaspiis	californica	(Coleman)	068	ACDE
Nuculaspiis	sp.		002	A
Odonaspiis	bambusarum	(Cockerell)	001	A
Odonaspiis	litorosa	Ferris	038	ACD
Odonaspiis	minima	Howell & Tippins	002P	A
Odonaspiis	penicillata	Green	001	C
Odonaspiis	ruthae	Kotinsky	020	AC
Odonaspiis	secreta	(Cockerell)	001	A
Parlatoria	camelliae	Comstock	011	A
Parlatoria	pergandii	Comstock	040	ACDF
Parlatoria	proteus	(Curtis)	022	AC
Parlatoria	theae	Cockerell	001	A
Pinnaspiis	aspidistrae	(Signoret)	056	ACF
Pinnaspiis	strachani	(Cooley)	046	ACD
Protodiaspiis	didymus	McK. & Nel.-Rees	001	A
Pseudaonidia	duplex	(Cockerell)	022	A
Pseudaonidia	paeoniae	(Cockerell)	015	A
Pseudaulacaspiis	cockerelli	(Cooley)	043	A
Pseudaulacaspiis	major	(Cockerell)	009	A
Pseudaulacaspiis	pentagona	(Targ.-Tozz.)	112	ACDEFGI
Pseudoparlatoria	ostreata	Cockerell	006	ACF
Pseudoparlatoria	parlatorioides	(Comstock)	001	C

Pseudoparlatoria	serrulata	Townsend & Ckll.	010	A
Pseudoparlatoria	tillandsiae	Tippins	001	A
Pseudoparlatoria	sp.		005	AE
Quadraspidiotus	forbesi	(Johnson)	043	ACDEFGI
Quadraspidiotus	juglansregiae	(Comstock)	079	ACDFGI
Quadraspidiotus	perniciosus	(Comstock)	086	ACDGI
Quadraspidiotus	taxodii	Ferris	004	AC
Quernaspis	insularis	Howell	005P	A
Quernaspis	quercus	(Comstock)	001	A
Rhizaspidiotus	dearnessi	(Cockerell)	022	ACDEF
Targionia	yuccarum	(Cockerell)	001	A
Unaspis	citri	(Comstock)	011	A
Unaspis	euonymi	(Comstock)	058	ACEF
Unaspis	sp.		002	A
Velataspis	dentata	(Hoke)	052	ACDEF
Unidentified Diaspididae			040	

ERIOCOCCIDAE

Eriococcus	araucariae	Maskell	007	ADF
Eriococcus	azaleae	Comstock	030	AD
Eriococcus	euphorbiae	Ferris	001	A
Eriococcus	kemptoni	Parrott	015	ACDEG
Eriococcus	quercus	(Comstock)	020	AD
Eriococcus	smithii	Lobdell	007	A
Eriococcus	sp.		011	ABDEF
Gossyparia	spuria	(Modeer)	001	A
Greenisca	sp.		021	A
Hypericicoccus	hyperici	(Ferris)	011	AD
Oregmopyga	sp.		018	AD
Ovaticoccus	agavium	(Douglas)	008	AD
Ovaticoccus	sp.		010	A
Tectococcus	ovatus	Hempel	003	A
Unidentified Eriococcidae			001	

HALIMOCOCCIDAE

Halimococcus	thebaicae	Hall	002	AD
--------------	-----------	------	-----	----

KERMESIDAE

Kermes	emoryi	Ferris	014	AD
Kermes	sp.		105	ABD

KERRIIDAE

Tachardiella	fulgens	(Cockerell)	001	A
Unidentified Kerriidae			002	

LECANODIASPIDIDAE

Lecanodiaspis	murphyi	Lambdin	001P	A
Lecanodiaspis	prosopidis	(Maskell)	065	A
Lecanodiaspis	sp.		004	A

MARGARODIDAE

Aspidoproctus	mirabilis	(Cockerell)	016	AD
Crypticerya	rosae	(Riley & Howard)	001	A
Desmococcus	sedentarius	McKenzie	030	AC
Dimargarodes	meridionalis	(Morrison)	005	AF
Dimargarodes	sp.		006	A
Eumargarodes	laingi	Jakubski	007	A
Icerya	aegyptiaca	(Douglas)	001	A
Icerya	purchasi	Maskell	045	AD
Icerya	seychellarum	(Westwood)	001	A
Icerya	zeteki	Cockerell	001	
Llaveiella	taenechina	Morrison	002	
Margarodes	polonicus	Linnaeus	012	A
Margarodes	vitium	Giard	003	A
Matsucoccus	acalyptus	Herbert	161	A
Matsucoccus	alabamae	Morrison	209	ACDEFH
Matsucoccus	bisetosus	Morrison	125	ACD
Matsucoccus	californicus	Morrison	109	ACDEH
Matsucoccus	degeneratus	Morrison	004	AC
Matsucoccus	eduli	Morrison	131	ACDEF
Matsucoccus	fasciculensis	Herbert	154	ACDH
Matsucoccus	feytaudi	Ducasse	002	AE
Matsucoccus	gallicolus	Morrison	548	ACDH
Matsucoccus	liaoningensis	Tang	001	A
Matsucoccus	matsumurae	(Kuwana)	017	ACDF
Matsucoccus	monophyllae	McKenzie	019	ACDH
Matsucoccus	paucicicatrices	Morrison	099	ACDH
Matsucoccus	resinosae	Bean & Godwin	086	ACDFHI
Matsucoccus	secretus	Morrison	137	ACDEH
Matsucoccus	sinensis	Chen	003	AC
Matsucoccus	vexillorum	Morrison	431P	ACDH
Matsucoccus	sp.(undescribed)		050	A
Matsucoccus	sp.(undescribed)		117	ACDHI
Matsucoccus	sp.		194	
Mimosicerya	hempeli	(Newstead)	001T	
Monophlebus	ficus	Laing	001	C
Neosteingelia	texana	Morrison	042	ACDFH
Palaeococcus	plucheae	(Cockerell)	004	A
Pityococcus	ferrisi	McKenzie	116	ACDH
Pityococcus	sp.		005	AC
Steatococcus	hellenicus	(Gennadius)	003	A
Steatococcus	morrilli	(Cockerell)	041	AD
Steatococcus	townsendi	(Cockerell)	069	ADE
Steingelia	gorodetskia	Nassanow	002	E
Stomacoccus	capsulatus	Ferris	043	ACDH
Stomacoccus	platani	Ferris	078	ACEFGH
Ultracoelostoma	assimile	Maskell	001	A
Walkeriana	digitifrons	Newstead	004	AD
Xylococculus	alni	(Florence)	019	CDF
Xylococculus	macrocarpae	(Coleman)	031	BD
Xylococculus	napiformis	Kuwana	004	
Unidentified Margarodidae			015	

ORTHEZIIDAE

Arctorthezia	occidentalis	Douglas	001	
Newsteadia	minima	Morrison	014	A
Nipponorthezia	obscura	Morrison	005	A
Orthezia	annae	Cockerell	029	AD
Orthezia	graminicola	Morrison	003	A
Orthezia	insignis	Browns	010	A
Orthezia	pseudinsignis	Morrison	001	A
Orthezia	tillandsiae	Morrison	023	AD
Orthezia	sp.		001	
Unidentified Ortheziidae			001	

PHENACOLEACHIIDAE

Phenacoleachia	zealandica	(Maskell)	007	AD
----------------	------------	-----------	-----	----

PHOENICOCOCCIDAE

Phoenicococcus	marlatti	(Cockerell)	004	ACDF
----------------	----------	-------------	-----	------

PSEUDOCOCCIDAE

Antonina	graminis	(Maskell)	055	ABCD
Antonina	nortoni	Parrott	001	A
Antonina	pretiosa	Ferris	001	A
Antoninoides	parrotti	(Cockerell)	001	A
Chorizococcus	rostellum	(Hoke)	065	ABCDI
Chorizococcus	shaferi	(Hollinger)	005	A
Discococcus	flabellatus	Ferris	001	A
Distichlicoccus	megacirculus	McKenzie	043	ADE
Dysmicoccus	boninsis	(Kuwana)	035	AE
Dysmicoccus	brevipes	(Cockerell)	009	A
Dysmicoccus	diodium	(McConnell)	001	A
Dysmicoccus	lasii	(Cockerell)	001	A
Dysmicoccus	morrisoni	(Hollinger)	007	AD
Dysmicoccus	obesus	(Lobdell)	021	AD
Dysmicoccus	sp.(on pine)		032	A
Dysmicoccus	sp.		006	A
Eurycoccus	jessica	(Hollinger)	008	A
Ferrisia	floridana	Ferris	004	A
Ferrisia	virgata	(Cockerell)	054	AD
Hypogeococcus	sp.(undescribed)		035	AD
Nipaecoccus	nipae	(Maskell)	008	AD
Oracella	acuta	(Lobdell)	032	AE
Paradoxococcus	mcdanieli	McKenzie	007	A
Phenacoccus	gossypii	Townsend & Ckll.	045	A
Phenacoccus	multisetosus	McKenzie	003	A
Phenacoccus	solani	Ferris	019	AD
Phenacoccus	solenopsis	Tinsley	023	AD
Phenacoccus	nr. multisetosus		004	A
Phenacoccus	nr.solani		026	A
Phenacoccus	sp.		013	A
Planococcus	citri	(Risso)	174	ABDEFG
Pseudantonina	giganticoxa	Hoke	001	A
Pseudantonina	sp.		001	A

Pseudococcus	comstocki	(Kuwana)	003	A
Pseudococcus	longispinus	(Targ.-Tozz.)	024	A
Pseudococcus	maritimus	(Ehrhorn)	032	A
Pseudococcus	obscurus	Essig	016	A
Pseudococcus	sorghiellus	(Forbes)	062	AD
Pseudococcus	sp.		007	A
Radicoccus	kelloggi	(Ehrhorn & Ckll.)	001	A
Rhizoecus	americanus	(Hambleton)	017	A
Rhizoecus	floridanus	Hambleton	004	A
Rhizoecus	mexicanus	(Hambleton)	007	A
Rhizoecus	palestinae	(Hambleton)	004	A
Rhizoecus	spinipes	(Hambleton)	008	A
Rhizoecus	subcyperalis	Hambleton	001	A
Rhizoecus	sp.		017	A
Spilococcus	gutierreziae	(Cockerell)	011	AD
Spilococcus	parkeri	McKenzie	028	AEF
Spilococcus	steelii	(Ckll. & Town.)	001	A
Symococcus	spirapuncta	Lobdell	016	AD
Trionymus	caricis	McConnell	014	AD
Trionymus	smithii	(Essig)	001	A
Trionymus	utahensis	(Cockerell)	002	A
Trionymus	sp.		002	A
Unidentified Pseudococcidae			063	

Stictococcidae

Stictococcus	sjostedti	Cockerell	001	A
--------------	-----------	-----------	-----	---

RECENT LITERATURE

by Douglass R. Miller

Systematic Entomology Laboratory, IIBIII, Agricultural Research Service,
USDA, Beltsville, Maryland

I wish to express special appreciation to Mrs. Helen Proctor for her diligent typing and arranging of this long list of publications. The following publications are those received since the newsletter was sent out in May 1982. The list also includes references gathered from a "current awareness" computerized literature search provided by the U.S. Department of Agriculture. If you are aware of papers published in 1982-1983 that are not included in this issue or the previous one, please let me know. Please continue to send reprints of your papers for assurance of inclusion in the newsletter. Publications marked by an asterisk are those that have been examined.

ANNUAL REPORT 1981
REPORT, CYPRUS AGRIC RES INST 1980: 87 PP

ANNUAL REPORT 1980-1981
REPORT, DEPT OF AGRICULTURAL RES AND EDUC, INDIA. 289 PP

AKHMEDOV., S. A.; ISMAILOV, F. IU. 1980
NEW PEST OF GRAPEVINE NEOPULVINARIA IMERITANA, KAZAKH DISTRICT, AZERBAIDZHAN SSR.
SADOVOD VINOGRAD VINODEL MOLD. 1980(11): 37 RU

AKINLOSOTU, T. A.; LEUSCHNER, K. 1981
OUTBREAK OF TWO NEW CASSAVA PESTS MONONYCHELLUS TANAJOA AND PHENACOCCLUS MANIHOTI
IN SOUTHWESTERN NIGERIA. TROP PEST MANAGE 27(2): 247-250

ALAM, S.; REZAUL KARIM, A.N.M. 1981
RICE MEALYBUG BREVENNIA REHI IN BANGLADESH. BANGLADESH J ZOO 9(1): 17-26

ALAYO SOTA, RAFAEL. 1981
SEASONAL DYNAMICS OF PARASITES, PREDATORS AND FUNGI THAT ATTACK SAISSETIA
HEMISPHERICA IN CUBA. ACAD CIENCIAS CUBA INFORME CIENTIFICO TECNICO 182

AL-HAFIDH, E. M. T.; SWAIR, I. A.; ABDUL-SATTAR, A. 1981
ECOLOGICAL STUDIES AND CHEMICAL CONTROL OF PARLATORIA DATE SCALE INSECT ON DATE
PALMS IN IRAQ. DATE PALM J 1(1): 117-127 AR EN

ALDHOUS, J. R. 1981
BEECH FAGUS SYLVATICA IN WESSEX ENGLAND. A PERSPECTIVE ON PRESENT HEALTH AND
SILVICULTURE. FORESTRY 54(2): 197-210

ALSTAD, D. N.; EDMUNDS, G. F., JR. 1983*
SELECTION, OUTBREEDING DEPRESSION, AND THE SEX RATIO OF SCALE INSECTS. SCIENCE
220: 93-95

ANDRZEJEWSKA, E. 1981
DETECTION OF THE NATURAL ORGANIC DYE, COCHINEAL, IN MEAT PRODUCTS. ROCZNIKI
PANSTWOWEGO ZAKLADU HIGIENY 32(4): 315-318 PL RU EN

ANON 1981
BIOLOGICAL CONTROL OF CITRUS COCCIDS AND ALEURODIDS. BULL SROP 4(2), 143 PP FR
EN ES IT

ANON 1981
CASSAVA PROGRAM ANNUAL REPORT 1980. CALI, COLOMBIA: CIAT CENTRO INTERNACIONAL
AGRICULTURA TROPICAL. 93 PP

ANON 1981
CIAT REPORT, HIGHLIGHTS OF ACTIVITIES IN 1980. 101 PP

ANON 1981
CMI DESCRIPTIONS OF PATHOGENIC FUNGI AND BACTERIA, COMMONWEALTH MYCOLOGICAL INST.
SET 72, NOS 711-720

ANON 1981
LECANIUM SCALE, LECANIUM SPP. INSECT ID SHEET, AGRIC CANADA 39: 2 PP EN FR

ANON 1981
A PIT SCALE (CEROCOCCUS KALMIAE) - FLORIDA - A NEW STATE RECORD. COOP PLANT PEST
REPT 5(34): 642

ANON 1981
RESEARCH DEPARTMENT THIRTYFOURTH ANNUAL DETAILED TECHNICAL REPORT 1980-1981
REPORT, COFFEE RESEARCH STATION COFFEE BOARD INDIA 176 PP

ANON 1981

RESEARCH DEPARTMENT THIRTYFOURTH ANNUAL REPORT 1980-81. COFFEE RESEARCH STATION
REPORT COFFEE BOARD INDIA 1982 63 PP

ANON 1982

GAMBIA CROP PROTECTION SERVICES 1979 ANNUAL REPORT.
REPORT, MINISTRY OF AGRICULTURE AND NATURAL RESOURCES, GAMBIA. 51 PP

ANON 1982(1980)

SUMMARIES OF RESEARCH ON COFFEE 1979-1980. NUEVA SAN SALVADOR, EL SALVADOR:
INSTITUTO SALVADORENO DE INVESTIGACIONES DEL CAFE. 7: + 128 PP ES

ANON 1982

RES HIGHLIGHTS FOR 1981.
IBADAN, NIGERIA: INTN INST TROP AGRIC 72PP

ARGYRIOU, L. C. 1981

ESTABLISHMENT OF THE IMPORTED PARASITE PROSPALTELLA PERNICIOSI (HYM.: APHELINIDAE)
ON QUADASPIDIOTUS PERNICIOSUS IN GREECE. ENTOMOPHAGA 26(2): 125-129

ARZONE, A.; VIDANO, C. 1981

MATSUCOCCUS FEYTAUDI DUC. A PLANT-SUCKING INSECT LETHAL TO PINUS PINASTER AIT. IN
ITALY. INFORMATORE FITOPATOLOGICO 31(10): 3-10 IT EN

ASHLEY, T. R.; MILLER, D. 1981

PROPAGATION OF THE WHITE PEACH SCALE, PSEUDAULACASPIS PENTAGONA, AND A TECHNIQUE
FOR PRODUCING VIRGIN FEMALE SCALES. J GA ENTOMOL SOC 16: 501-504

ATU, U. G.; OKEKE, J. E. 1981

EFFECT OF INSECTICIDE APPLICATION ON CASSAVA YIELD IN CONTROL OF CASSAVA MEALYBUG
(PHENACOCCUS MANIHOTI). TROP PEST MANAGE 27(3): 434-435

BABEVA, Z. 1980

COCCOIDEA OF THE FERGANA VALLEY TADZHIK SSR USSR. IZV ADAM NAUK TADZH SSR OTD
BIOL NAUK (1): 55-60 RS

BABUJEE, C. R.; RAMAN, A. 1982

ON THE DEVELOPMENTAL MORPHOLOGY OF SOME ABNORMAL STOMATAL TYPES IN THE LEAF GALLS
OF BARLERIA PRIONOTIS LINN. (ACANTHACEAE) INDUCED BY FERISINA [SIC] VIRGATA. CURR
SCI 51(9): 471-472

BAER, R. G.; KOSZTARAB, M. 1981

TWO NEW SPECIES OF GALL-LIKE SCALE INSECTS ON OAKS FROM THE NEARCTIC REGION. FL
ENT 64(2): 226-234

BARTLETT, P. W. 1981

TRIONYMUS DIMINUTUS (LEONARDI) INFESTING NEW ZEALAND FLAX IN ENGLAND. PLANT PATH
30(1): 56-58

BASTOS, J. A. M; SALES, F. M.; GOMES, N. G.; FIGUIREDO, R. W. 1981(1980)

PRELIMINARY SURVEY OF THE POPULATION OF INSECTS AND RELATED FORMS ON MANICOPA,
MANIHOT GLAZIOVII MUELL ARG. FITOSSANIDADE 4(1): 17-20. PT EN

BEN-DOV, Y. 1981*

A CATALOGUE OF THE CONCHASPIDIDAE OF THE WORLD. ANN SOC ENTOMOLOG FRANCE 17(2):
143-156 EN FR

BEN-DOV, Y. 1981*

A NEW SPECIES OF COCCUS FROM MANGO IN ISRAEL AND A REDESCRIPTION OF COCCUS GYMNOSPORI. BULL ENTOMOL RES 71(4): 649-654

BEN-DOV, Y. 1981*

REDESCRIPTION OF MATSUCOCCUS JOSEPHI BODENHEIMER AND HARPAZ (HOMOPTERA: COCCOIDEA: MARGARODIDAE) PEST OF PINUS IN ISRAEL. ISRAEL J OF ENTOMOL 3-51

BEZDETOKO, A. N.; TARZIEV, Z. SH. 1981

UNDER QUARANTINE CONTROL. ZASCHITA RASTENII 7: 6-7 RU

BIERL-LEONHARDT, B. A.; MORENO, D. S.; SCHWARZ, M.; FORSTER, H. S.; PLIMMER, J. R.; DEVILBISS, E. D. 1982

ISOLATION, IDENTIFICATION, SYNTHESIS AND BIOASSAY OF THE PHEROMONE OF THE COMSTOCK MEALYBUG AND SOME ANALOGS. J CHEM ECOL 8(4): 689-699

BIGGER, M. 1981

THE RELATIVE ABUNDANCE OF THE MEALYBUG VECTORS (COCCIDAE AND PSEUDOCOCCIDAE) OF COCOA SWOLLEN SHOOT DISEASE IN GHANA. BULL ENTOMOL RES 71(3): 435-448

BIRJANDI, A. K. 1981

BIOLOGY AND ECOLOGY OF PARTHENOLECANIUM SPP. ENTOMOL MONTHLY MAG 117(1400/1403): 47-58

BLACKMORE, S. 1981

PENETRATION OF THE HOST PLANT TISSUES BY THE STYLETS OF THE COCCOID ICERYA SEYCHELLARUM ON ALDABRA ATOLL INDIAN OCEAN. ATOLL RES BULL 254: 33-38

BLUMBERG, D. 1982

FURTHER STUDIES OF THE ENCAPSULATION OF METAPHYCUS SWIRSKII BY SOFT SCALES ENTOMOL EXP APPL 31(3): 245-248 SAISSETIA OLEAE

BLUMBERG, E.; SWIRSKI, E. 1982

COMPARATIVE STUDIES OF THE DEVELOPMENT OF TWO SPECIES OF METAPHYCUS (HYMENOPTERA: ENCARTIDAE) INTRODUCED INTO ISRAEL FOR THE CONTROL OF THE MEDITERRANEAN BLACK SCALE, SAISSETIA OLEAE. ACTA OECOLOGICA 3(3): 281-286 EN FR

BOGACHEVA, V. I. 1980

PESTS AND DISEASES OF HIPPEASTRUM FLOWER PLANT. TSVETOVODSTO 3: 28-29 RU. PSEUDOCOCCUS MARITIMUS, PSEUDOCOCCUS AMARYLLIDIS, COCCUS HESPERIDUM,

BOGS, D.; BRAASCH, D. 1981

OCCURRENCE OF SCALE INSECTS ON CONIFERS AND THEIR EFFECTIVE CONTROL. NACHIRCHTENBLATT PFLANZENSCHUTZ DRR 35(10): 211 DE

BOHLER, D. 1981

BLAST SCALE INSECTS WITH WATER JETS AND REDUCE CITRUS LOSS. INFORMATION BULL CITRUS SUBTROPICAL FRUIT RES INST. 111: 1-2

BONAFONTE, P. 1981

THE INFLUENCE OF LABORATORY REARING AND OF DELAYED MATING ON THE FECUNDITY AND SEX RATIO OF CHRYSOMPHALUS FICUS ASHMEAD. ANN SOC ENTOMOLOGIQUE FRANCE 17(2): 157-170 FR EN

BRAIKO, YA. P.; KIRILLOVA, G. N.; YORTSEV, V. M. 1981

OUR EXPERIENCE. ZASHCHITA RASTENII 3: 38-39 RU

- BROOKES, H. M. 1981*
A NEW GENUS AND SPECIES OF MEALYBUG ON CALLITRIS IN SOUTH AUSTRALIA. J AUST ENT SOC 20: 127-129
- BROOKES, HELEN M. 1982*
EPICOCCLUS COCKERELL AND ITS TYPE SPECIES, EPICOCCLUS ACACIAE (MASKELL), REDESCRIBED. J AUST ENT SOC 21: 237-240
- BULLOCK, R. C. 1981(1980)
TEMIK ALDICARB FOR CONTROL OF PESTS ON FLORIDA CITRUS. PROC FL STATE HORT SOC 93: 44-47
- BURDITT, A. K., JR.; BARANOWSKI, R. A. 1981
MANAGEMENT OF ARTHROPOD PESTS FOR SUBTROPICAL FRUITS. IN JOHNSON, D. T. TREE FRUIT AND NUT PEST MANAGEMENT IN THE SOUTHEASTERN UNITED STATES. MISC PUB ENTOMOL SOC AMER 12: 85-90
- CAMERON, D. W.; CONN, C.; FEUTRILL, G. I. 1981
CHEMISTRY OF THE COCCOIDEA VII. SYNTHESIS OF CEROALBOLINIC ACID. AUST J CHEM 34(9): 1945-1950.
- CAMERON, D. W.; DEUTSCHER, D. J.; FEUTRILL, G. I.; GRIFFITHS, P. G. 1981
CHEMISTRY OF THE COCCOIDEA, VIII. SYNTHESIS OF THE ANCIENT DYESTUFF KERMESIC ACID AND OF RELATED ANTHRAQUINONES. AUSTRALIAN J CHEM 34(11): 2401-2421
- CAMERON, D. W.; FEUTRILL, G. I.; KARGE, R. L.; PATTI, A. F. 1982
CHEMISTRY OF THE COCCOIDEA, IX. PIGMENTS FROM THE LAC INSECT AUSTROTACHARDIA ACACIAE AND ASSOCIATED SYNTHETIC WORK. AUSTRALIAN J CHEM: 2481-2485.
- CAMERON, D. W.; FEUTRILL, G. I.; PERLMUTTER, P. 1982
CHEMISTRY OF THE COCCOIDEA. X. SYNTHESIS OF THE XANTHOL ACCAID ACID B SYSTEM AND OF RELATED COMPOUNDS. AUST J CHEM 35(7): 1469-1480.
- CARMAN, G. E. 1981
COMMENTS ON THE RED SCALE SITUATION IN SOUTH AFRICA. CITRUS SUBTROPICAL FRUIT J 575: 7, 9, 11
- CARRERO, J. M. 1982
ENTOMOPHAGOUS AGENTS OF COCCIDS OF CITRUS IN THE PROVINCE OF VALENCIA SPAIN, BIOLOGICAL CONTROL. PROC INT SYMP I O B C W P R S. 521-526
- CHAKRAVERTY, I.; GHOSH, A.; ROY, B. R. 1982
A STUDY OF HEPATIC BIOCHEMISTRY TO EVALUATE LAC DYE AS A FUTURE FOOD COLORING AGENT. DYE PRODUCED BY THE INSECT LACCIFER LACCA. J APPLIED NUTR 34(1): 24-28
- CHARLES, J. G. 1981
DISTRIBUTION AND LIFE HISTORY OF THE LONGTAILED MEALY BUG, PSEUDOCOCCUS LONGISPINUS, IN AUCKLAND VINEYARDS. NEW ZEALAND J ZOOL 8(2): 285-293
- CHARLES, J. G.; WALKER, J. T. S. 1981
MEALYBUG CONTROL IN APPLES. ORCHARDIST OF NEW ZEALAND 54(8): 252-253
- CHAUDHARY, D.; SINGH, D. R. 1982
RESIDUAL TOXICITY OF SUMITHION AND SOLVIREX AGAINST MEALYBUG DROSICHA STEBBINGI. GEOBIOS 9(2): 80-81

- CHAZEAU, J. 1981
BIOLOGICAL CONTROL OF THE TRANSPARENT SCALE OF COCONUT, TEMNASPIDIOTUS (ASPIDIOTUS) DESTRUCTOR, IN THE NEW HEBRIDES. CAHIERS ORSTOM BIOLOGIE 44: 11-22
FR EN
- CHAZEAU, J. 1981
BIOLOGY OF COELOPHORA QUADRIVITTATA PREDATOR OF COCCUS VIRIDIS IN NEW CALEDONIA. ENTOMOPHAGA 26(3): 301-312 FR
- CHIU, S. C.; CHOU, L. Y.; CHOU, K. C. 1981
A PRELIMINARY SURVEY ON THE NATURAL ENEMIES OF KERRIA LACCA (KERR) IN TAIWAN. J AGRIC RES CHINA 30(4): 420-425 CH EN
- CHU, J. C. 1981
STUDIES ON THE MORPHOLOGY, LIFE CYCLE AND CONTROL OF TEA LAC INSECTS (TACHARDINA THEAE GREEN AND MENN). (CHIH WU PAO) HU HSUEH PAO ACTA PHYTOPHYLACIA 8(3): 187-192 CHI EN.
- COX, J. M.; WILLIAMS, D. J. 1981*
AN ACCOUNT OF CASSAVA MEALYBUGS WITH A DESCRIPTION OF A NEW SPECIES. BULL ENT RES 71: 247-258
- DABBOUR, A. I. 1981
DISTRIBUTION OF THE SCALE INSECT PARLATORIA BLANCHARDII TARG. ON DATE-PALM TREES. MEDEDELINGEN FACULTEIT LANDBOUWWETENSCHAPPEN. 46(2): 553-558
- DALE, P. A. 1981*
GREEDY SCALE: BIOLOGY, DAMAGE AND CONTROL ON KIWIFRUIT. NEW ZEALAND MIN OF AGRIC AND FISHERIES, AGLINK HPP 32
- DANZIG, E. M. 1980*
NOMENCLATURE AND SYNONYMY OF SEVERAL SPECIES OF SCALE INSECTS AND WHITE FLIES. ENTOMOL OBOZR 59(3): 594-596 RU
- DANZIG, E. M. 1980
THE NOMENCLATURE AND SYNONYMY OF SEVERAL SPECIES OF COCCINEA AND ALEYRODINEA (HOMOPTERA) ZYLOCOCCUS QUERICICOLA, PARTHENOLECANIUM RUFULUM, JAPANEYRODES SIMILIS, NEW TAXA. ENTOMOL REVIEW: 73-74
- DANZIG, E. M.; KERZHNER, I. M. 1981
COCCUS AND PARTHENOLECANIUM: PROPOSED DESIGNATION OF TYPE SPECIES UNDER THE PLENARY POWERS. BULL ZOOL NOMEN 38(2): 147-152
- DAVIES, R. G.; WILLIAMS, D. J. 1982*
DR. K. L. BORATYNSKI ENTOMOLOGIST, TAXONOMIST, COCCOIDEA, POLAND, ENGLAND. ENTOMOL MON MAG: 93-96
- DEBACH, P.; ROSE, M. 1981
A NEW GENUS AND SPECIES OF APHELINIDAE WITH SOME SYNONYMIES. A REDIAGNOSIS OF ASPIDIOTIPHAGUS AND A KEY TO PENTAMEROUS AND HETEROMEROUS PROSPALTELLINAE. PROC ENTOMOL SOC WASH 83(4): 658-679
- DE KLERK, A. A.; GILIOMEE, J. H.; AND BEN DOV, Y. 1980*
BIOLOGY OF MARGARODES CAPENSIS GIARD UNDER LABORATORY AND CONTROLLED CONDITIONS IN SOUTH AFRICA. PHYTOPHYLACTICA 12: 147-156

- DE KLERK, C. A.; GILIOMEE, J. H.; AND BEN-DOV, Y. 1982*
BIOLOGY OF MARGARODES CAPENSIS GIARD UNDER FIELD CONDITIONS IN SOUTH AFRICA.
PHYTOPHYLACTICA 14: 85-93
- DE KLERK, C. A.; BEN-DOV, Y.; and GILIOMEE, J. H. 1982*
REDESCRIPTIONS OF FOUR VINE INFESTING SPECIES OF MARGARODEA BUILDING FROM SOUTH AFRICA. PHYTOPHYLACTICA 14: 61-76
- DELRIO, G.; ORTU, S; PROTA, R. 1979
PROSPECTS FOR INTEGRATED PEST CONTROL IN SARDINIAN CITRUS CULTURE. STUDI SASSARESI 27: 205-232 IT FR EN
- DHAWAN, A. K.; JOGINDER SINGH; DISHU, A. S. 1980
MACONELLICOCUS SP. ATTACKING ARBOREUM COTTON IN PUNJAB. SCIENCE AND CULTURE 46(7): 258
- DITSWORTH, T. M.; BUTT, S. M.; BELEY, J. R.; JOHNSON, C. D.; BALDA, R. P. 1982
ARTHROPODS PLANTS AND TRANSMISSION LINES IN ARIZONA. COMMUNITY DYNAMICS DURING SECONDARY SUCCESSION IN A PINYON PINUS EDULIS JUNIPER JUNIPERUS MONOSPERMA WOODLAND. SOUTHWEST NAT 27(2): 167-182
- DOLIDZE, G.V.; DEKANOSIDZE, T.E. 1982
TOXICITY OF INSECTICIDES FOR NEOPULVINARIA IMERETINA HADZ. KHIM SEL'SK KHOZ 1: 31-32
- DORN, S.; FRISCHKNECHT, M. L.; MARTINEZ, V.; ZURFLUEH, R.; FISCHER, U. 1981
A NOVEL NONNEUROTOXIC INSECTICIDE WITH A BROAD ACTIVITY SPECTRUM. Z PFLANZENKR PFLANZEWSCHUTZ 88(5): 269-275
- EDWARDS, E. P. 1982
HUMMINGBIRDS FEEDING ON AN EXCRETION PRODUCED BY SCALE INSECTS. CONDOR 84(1): 122
- ELMER, H. S.; BRAWNER, O. L.; ATKIN, D. R.; GONZALES, R. F. 1982*
SINGLE CITRUS BUDWOOD TREATMENT AGAINST INSECTS AND MITES. CALIFORNIA AGRICULTURE 36(7): 7-8
- ELMER, H. S.; BRAWNER, O. L.. 1982
SEVEN-YEAR STUDY OF EFFECTS OF CALIFORNIA RED SCALE (HOMOPTERA: DIASPIDIDAE) ON NAVEL ORANGE PRODUCTION IN CALIFORNIA'S SAN JOAQUIN VALLEY. J ECON ENTOMOL 75(4): 699-700
- EMMS, L. M. 1981*
CITRUS MEALYBUG: ORNAMENTAL PEST: BIOLOGY, SIGNIFICANCE AND CONTROL. NEW ZEALAND MIN OF AGRIC AND FISHERIES, AG LINK HPP 158
- EZUMAH, H. C. 1981
CASSAVA IMPROVEMENT IN THE PROGRAMME NATIONAL MANIOC IN ZAIRE: OBJECTIVES AND ACHIEVEMENTS UP TO 1978. IN TERRY, E. R.; ODURO, K. A.; CAVENESS, F. TROPICAL ROOT CROPS: RESEARCH STRATEGIES FOR THE 1980s. INTERNAT DEVEL RES CENTRE, OTTAWA, CANADA 29-34 EN FR
- FABRE, J. P. 1980
MORTALITY IN STANDS OF PINUS PINASTER FOLLOWING THE INTRODUCTION OF MATSUCOCCUS FEYTAUDI INTO ITALY. ITALIA FORESTALE MONTANA 35(1): 40-42 FR IT

- FABRES, G. 1981
BIOECOLOGY OF THE CASSAVA MEALYBUG (PHENACOCOCCUS MANIHOTI IN THE PEOPLE'S REPUBLIC OF CONGO II. AGRONOMIE TROPICALE 36(4): 369-377
FR EN ES
- FABRES, G. 1981
COMPARATIVE STRUCTURAL AND FUNCTIONAL ANALYSIS OF THE BIOCONENOSIS OF A HOMOPTEROUS INSECT (LEPIDOSAPHES BECKII) IN TWO TYPES OF CITRUS-GROWING HABITATS IN NEW CALEDONIA. SUMMARY OF THESIS. CAHIERS ORSTOM, SERIE BIOLOGIE 44: 43-47 FR
- FABRES, G. 1981
NATURAL ENEMIES ATTACKING THE CASSAVA MEALYBUG PHENACOCOCCUS MANIHOTI IN THE PEOPLE'S REPUBLIC OF CONGO. II. COMPARATIVE MORPHOLOGICAL STUDY OF THREE DOMINANT SPECIES OF COCCINELLIDAE. CAHIERS ORSTOM, SERIE BIOLOGIE 44: 3-8 FR EN
- FABRES, G. 1981
PRELIMINARY DATA ON THE OUTBREAK OF POPULATIONS OF PHENACOCOCCUS MANIHOTI MATILE-FERRERO IN CONGO. AGRONOMIE 1(6): 483-486 FR EN
- FABRES, G.; BOUSSIENGUE, J. 1981
BIOECOLOGY OF THE CASSAVA MEALYBUG (PHENACOCOCCUS MANIHOTI) IN THE PEOPLE'S REPUBLIC OF CONGO. 1-DEVELOPMENT CYCLE AND BIOLOGICAL PARAMETERS. AGRONOMIE TROPICALE 36(1): 82-89 FR EN ES
- FABRES, G.; MATILE-FERRERO, D. 1980*
LES ENTOMOPHAGES INFEODES A LA COCHENILE DU MANIOC, PHENACOCOCCUS MANIHOTI EN REPUBLIQUE POPULAIRE DU CONGO. ANN SOC ENT FR 16(4): 509-515
- FADEEV, YU. N.; IZHEVSKII, S. S. 1981
INTRODUCTION OF BENEFICIAL ORGANISMS. ZASCHITA RASTENII 7: 18-19 RU
- FIREMPONG, S. 1981
A METHOD OF REARING THE MEALYBUG PLANOCOCCOIDES NJALENSIS ON COCOA SEEDLINGS. REV THEOBROMA 11(4): 229-232
- FIREMPONG, S. 1982
THE PERFORMANCE OF PLANOCOCCOIDES NJALENSIS ON SOME COCOA CULTIVARS. ANN APPL BIOL 100: 100-101
- FLAHERTY, D. L.; PEACOCK, W. L.; BETTIGA, L.; LEAVITT, G. M. 1982*
CHEMICALS LOSING EFFECT AGAINST GRAPE MEALYBUG PSEUDOCOCCUS MARITIMUS. CALIF AGRIC EXP STN 36(5/6): 15-16
- FOLDI, I. 1981
MARGARODESIA, N. GEN., AN AFRO-ASIAN SCALE INSECT INJURIOUS TO OIL PALM. ANN SOC ENTOMOL FRANCE 17(3): 331-335 FR EN
- FOLDI, I. 1982*
ETUDE STRUCTURALE ET EXPERIMENTALE DE LA FORMATION DU BOUCLIER CHEZ LES COCHENILLES DIASPINES. ANNLS SOC ENT FR 18(3): 317-330
- FREIMAN, T. IA. 1981
SAN JOSE SCALE IN MARITIME TERRITORY RSFSR, ASPIDIOTUS PERNICIOSUS. ZASHCHITA RASTENII 9: 39 RU

- GAO, R. X.; OUYANG, Z. 1981
A PRELIMINARY INVESTIGATION ON PARASITIC FUNGI ON CITRUS PESTS. WEISHENGWUXUE
TONGBAO 8(2): 57-58 CH
- GERSON, U.; AND SCHNEIDER, R. 1981*
LABORATORY AND FIELD STUDIES ON MITE HEMISARCOPTES COCCOPHAGUS MEYER, A NATURAL
ENEMY OF ARMORED SCALE INSECTS. ACAROLOGIA 22 (2): 199-208.
- GHARIB, B.; GIRARDIE, A.; REGGI, M. 1981
ECDYSTEROIDS AND CONTROL OF EMBRYONIC DIAPAUSE: CHANGES IN ECDYSTEROID LEVELS AND
EXOGENOUS HORMONE EFFECTS IN THE EGGS OF COCHINEAL LEPIDOSAPHES. EXPERIENTIA
37(10): 1107-1108 (L. ULMI)
- GILL, R. J. 1981*
PHOTO RECOGNITION KEY TO WHITEFLIES AND SCALE INSECT FAMILIES OF CALIFORNIA.
STATE CA DEPT FOOD AGR., KEY NO. 1, 4 PP.
- GILL, R. J. 1981*
COLOR-PHOTO AND HOST KEYS TO CALIFORNIA WHITEFLIES. STATE CA DEPT FOOD AGRIC, KEY
NO. 2, 6 PP
- GILL, R. J. 1981*
COLOR-PHOTO AND HOST KEYS TO MEALYBUGS OF CALIFORNIA. STATE CA DEPT FOOD AND
AGRIC, KEY NO. 3, 6 PP
- GILL, R. J. 1981*
COLOR PHOTO AND HOST KEYS TO SOFT SCALES OF CALIFORNIA. STATE CA DEPT FOOD AGR,
KEY NO. 4, 8 PP
- GILL, R. J.* 1981
COLOR-PHOTO AND HOST KEYS TO ARMORED SCALES OF CALIFORNIA. STATE CA DEPT FOOD
AGRIC, KEY NO. 5, 8 PP
- GILIOMEE, J. H. 1981*
MANAGEMENT OF RED SCALE (AONIDIELLA AURANTII (MASK)) ON CITRUS IN SOUTH AFRICA.
CITRUS SUBTROPICAL FRUIT J 566
- GILIOMEE, J. H.; AND SWANEPOEL, T. G. 1979*
FUNGAL GROWTH ON CITRUS FRUIT AS A RESULT OF MECHANICAL RED SCALE REMOVAL. CITRUS
SUBTROPICAL FRUIT 550.
- GOPINATHAN, P. V.; BEEVI, N. N.; NAIR, M. R. G. K. 1982
OCCURRENCE OF FUSARIUM EQUISETI (CORDA) SACC AS A FUNGAL PARASITE OF BRINJAL MEALY
BUG COCCIDOHYSTRIX INSOLITA (GREEN) INDIA. ENTOMON: 120-121
- GORDON, R. D. 1980
THE TRIBE AYZINI (COLEOPTERA: COCCINELLIDAE): HISTORICAL REVIEW AND TAXONOMIC
REVISION. TRANS AUSTRALIAN ENTOMOL SOC 106(2): 149-203
- HABIBIAN, A. 1980
BIOLOGY AND CONTROL OF SAN JOSE SCALE IN GUILAN PROVINCE. ENTOMOL ET
PHYTOPATHOLOGIE APPLIQUEES 48(2): 127-134 PE EN
- HABIBIAN, A. 1981
SOME STUDIES ON PSEUDAULACASPIS PENTAGONA TARG. AND ITS NEWLY IMPORTED PARASITE
(PROSPALTELLA BERLESEI IN GUILAN PROVINCE. ENTOMOLOGIE PHYTOPATHOLOGIE APPLIQUEES
49(1): 65-72 PE EN

- HAFIDH, E. M. T.; SWAIR, I. A.; ABDUL-SATTAR, A. 1981
ECOLOGICAL STUDIES AND CHEMICAL CONTROL OF PARLATORIA DATE SCALE INSECT
(PARLATORIA BLANCHARDII TARG.) ON DATE PALMS IN IRAQ. DATE PALM J 1(1): 117-127
AR EN
- HAHN, S. K.; TERRY, E. R.; LEUSCHNER, K.; SINGH, T. P. 1981
CASSAVA IMPROVEMENT STRATEGIES FOR RESISTANCE TO MAJOR ECONOMIC DISEASES AND PESTS
IN AFRICA. IN TERRY, E.R.; ODURA, K.A.; CAVENESS, F. TROPICAL ROOT CROPS:
RESEARCH STRATEGIES FOR THE 1980S. INTERNAT DEVEL RES CENTRE, OTTAWA, CANADA
1981: 25-28 EN FR
- HALSTEAD, A. J. 1982
FOODPLANTS OF PULVINARIA REGALIS CANARD (HEM: COCCIDAE) IN ENGLAND. PROC TRANS
BRITISH ENTOMOL NAT HIST SOC 15(1/2): 46
- HAMILTON, W. D. 1981
SYCAMORE SCALE STOMACOCCUS PLANTANI. CALIF COOP EXT SERV LEAFLET, UNIV CALIF NO
2545, 2 PP
- HAMON, A. B. 1981
PLUMOSE SCALE, MORGANELLA LONGISPINA (MORGAN). ENTOMOL CIRCULAR FLA DEPT AGRIC
CONS SERV 226, 2 PP
- HAMON, A. B. 1982*
RHIZOECUS ARABICUS HAMBLETON, A ROOT MEALYBUG IN FLORIDA. ENTOMOL CIRC FLA DEPT
AGRIC CONS SERV 238, 2 PP
- HARRIS, K. M. 1981
DICRODIPLOSIS MANIHOTI NEW SPECIES (DIPTERA CECIDOMYIIDAE) A PREDATOR ON CASSAVA
MEALYBUG PHENACOCCUS MANIHOTI IN AFRICA. ANN SOC ENTOMOL FR 17(3): 337-344 FR EN
- HART, W. G. 1980
SOME BIOLOGICAL CONTROL SUCCESSES IN THE SOUTHERN UNITED STATES. PROC INT SOC
CITRICULTURE 1976: 154-156.
- HAYAT, M. 1981
TAXONOMIC NOTES ON INDIAN ENCYRTIDAE II. J NAT HIST 1(1): 17-29
- HAYAT, M. 1981
TAXONOMIC NOTES ON INDIAN ENCYRTIDAE. III. COLEMANIA 1(1): 13-34
- HAYAT, M.; RAO, B. R. S. 1981
A SYSTEMATIC CATALOG OF ENCYRTIDAE FROM THE INDIAN SUBCONTINENT. COLEMANIA 1(2):
103-126
- HICKMAN, G. W. 1981
MEALYBUG CONTROL ON GREENHOUSE FOLIAGE PLANTS. FLOWER NURSERY REPT 1981
(SPRING): 3-4
- HILL, W. B.; BURTS, E. C. 1982
GRAPE MEALYBUG ON PEAR IN NORTH-CENTRAL WASHINGTON. J ECON ENTOMOL 75(3): 501-503
- HOLLINGER, T.; MULLER, P. J. 1981
CONTROL OF MEALYBUGS DURING RETARDATION STORAGE OF FLOWER BULBS.
BLOEMBOLLENCULTUUR 92(14): 352-353 NL

HOMRITI, M. EL; LARAICHI, M. 1981(1979)
NOTE ON THE BIOECOLOGY OF SAISSETIA OLEAE (OLIVIER) IN THE REGION OF MOULAY IDRIS
OF ZERHOUN. AWAMIA 57: 73-82. FR EN AR ES

HONIBALL, F.; GILIOMEE, J. H.; RANDALL, J. H. 1979*
MECHANICAL CONTROL OF RED SCALE ON HARVESTED ORANGES. CITRUS AND SUBTROPICAL
FRUIT JOUR 549, AUGUST 1979

HOSKING, J. R.; DEIGHTON, P. J. 1981
BIOLOGICAL CONTROL OF MOISTURE STRESSED OPUNTIA AURANTIACA USING DACTYLOPIUS
AUSTRINUS. PROC 5TH INTER SYMP BIOLOGICAL CONTROL OF WEEDS. 483-487.

HOSKING, J. R.; DEIGHTON, P. J. 1981
TIGER PEAR IS A CONTINUING PROBLEM. AGRIC GAZETTE NEW SOUTH WALES 92(3): 43-45

HOU, K. W.; CHEN, Y. D.; HOU, X. K. 1981
APPLICATION OF RADIO-ISOTOPE FOR CONTROLLING THE OVERPARASITISM OF THE LAC INSECTS
LACCIFERRA LACCA. SCIENTIA SILVAE SINICAE 17(3): 331-335.

HOWELL, J. O.; TAKAGI, S. 1981
NEOQUERNASPIS NEW GENUS OF ARMORED SCALES FROM EAST ASIA. ANN ENTOMOL SOC AM
74(5): 487-488

HSIEH, F. K.; HWANG, J. S. 1981
STUDIES OF THE CHEMICAL CONTROL OF THE LAC INSECT KERRIA LACCA IN TAIWAN. PLANT
PROT BULL 23(1): 25-33 CH EN

HWANG, J. S.; HSIEH, F. K. 1981
BIONOMICS OF THE LAC INSECT IN TAIWAN. PLANT PROTEC BULL 23(2): 103-115

IHEAGWAM, E. U. 1981
NATURAL ENEMIES AND ALTERNATIVE HOSTPLANT OF THE CASSAVA MEALYBUG, PHENACOCCLUS
MANIHOTI IN SOUTHEASTERN NIGERIA. REVUE ZOOLOGIE AFRICAINE 95(2): 433-438

IHEAGWAM, E. U. 1981
THE INFLUENCE OF TEMPERATURE ON INCREASE RATES OF THE CASSAVA MEALYBUG PHENACOCCLUS
MANIHOTI MAT.-FERR. REVUE ZOOLOGIE AFRICAINE 95(4): 959-967

JARRAYA, A. 1981
CONTRIBUTION TO THE STUDY OF HOST-PARASITE INTERACTION IN COCCUS HESPERIDIUM L.
AND ITS PARASITE COCCOPHAGUS SCUTELLARIS DALMAN. III - INFLUENCE OF THE NUMBER OF
HOSTS AND OF THEIR STATE OF HEALTH ON THE OVIPOSITION OF THE PARASITE. ARCHIVES
DE L'INSTITUT PASTEUR DE TUNIS 58(1/2): 51-63. FR EN

JOHNSON, W. T. 1982*
THE SCALE INSECT, A PARAGON OF CONFUSION. J ARBORICULTURE 8(5): 113-123

JULIA, J. F. 1980
PHYTOSANITARY SURVEILLANCE IN MATURE COCONUT PLANTATIONS IN WEST AFRICA.
OLEAGINEUX 35(5): 247-253. FR EN ES

KHACHATRYAN, M. G.; MAGAKYAN, YU A.; KARALOVA, E. M. 1980
CONTENT KINETICS OF MAIN PROTEINS HISTONES IN THE OOCYTE NUCLEUS OF COCHINEAL
INSECTS WITH RESPECT TO MORPHO FUNCTIONAL CHANGES OF ITS CHROMOSOMAL NUCLEOLAR
APPARATUS IN OOGENESIS. BIOL ZH ARM 33(8): 809-814 RU

- KHAN, M. Y.; SHAFEE, S. A. 1981
ON SOME NEW SPECIES OF TETRASTICHUS HALIDAY (HYMENOPTERA: EULOPHIDAE). J BOMBAY NAT HIST SOC 78(2): 337-343
- KHAN, M. Y.; SHAFEE, S. A. 1981
TWO NEW SPECIES OF TETRASTICHINAE FOERSTER (HYMENOPTERA: EULOPHIDAE) FROM INDIA. J OF BOMBAY NAT HIST SOC 78(2): 344-348
- KNAPP, J. L. 1981
INTEGRATED PEST MANAGEMENT IN FLORIDA CITRUS. IN JOHNSON, D. T., TREE FRUIT AND NUT PEST MANAGEMENT IN THE SOUTHEASTERN UNITED STATES. MISC PUBL ENTOMOL SOC AMER 12: 91-98
- KOMELIBIRJANDI, A. 1981*
BIOLOGY AND ECOLOGY OF PARTHENOLECANIUM SPP. ENTOMOL MONTHLY MAG 117: 47-57
- KOMURA, H.; MIZUKAWA K.; MINAKATA, H. 1982
CEROALBOLINIC ACID, A COMMON BODY PIGMENT OF THREE CEROPLASTES SCALE INSECTS IN JAPAN, CONFIRMATION OF STRUCTURE. BULL CHEM SOC JPN 55(9): 3053-3054
- KOSZTARAB, M. 1981
RECENT ADVANCES IN THE STUDY OF COCCOIDEA WITH SPECIAL REFERENCE TO INTEGRATED PEST MANAGEMENT. ACTA PHYTOPATHOLOGICA 16(1/2): 151-156
- KOSZTARAB, M. 1982
OBSERVATIONS ON TORVOTHRIPS KOSZTARABI (THYSANOPTERA: PHLAEOTHRIPIDAE) INHABITING COCCOID GALLS PRODUCED BY OLLIFFIELLA CRISTICOLA ON QUERCUS EMORYI. FLA ENTOMOL 65(1): 159-164
- KOTEJA, J. 1981
FREQUENCY OF HONEYDEW EXCRETION IN RELATION TO CIRCADIAN ACTIVITY IN SCALE INSECTS. POL PISMO ENTOMOL 51(3): 365-376
- KOTEJA, J.; BROOKES, H. M. 1981*
SYMONICOCUS GEN N, WITH FIVE NEW AUSTRALIAN SPECIES. POLSKIE PISMO ENTOMOL 51: 377-392
- KOZAR, F.; JASNOSH, V. A.; KONSTANTINOVA, G. M. 1982
COMPARATIVE EVALUATION OF THE DISTRIBUTION OF SCALE INSECTS AND THEIR PARASITES IN GEORGIA USSR AND IN TURKEY. SURVEY OF SCALE INSECT INFESTATIONS IN EUROPEAN ORCHARDS VI. Z AGNEW ENTOMOL 93(4): 333-338
- KOZAR, F.; KONSTANTINOVA, G. M. 1981*
SAN JOSE SCALE IN DECIDUOUS FRUIT ORCHARDS OF SOME EUROPEAN COUNTRIES. SURVEY OF SCALE INSECT INFESTATIONS IN EUROPEAN ORCHARDS NO. IV. BULL ORGANIZATION EUROPEENNE MEDITERRANEENE PROTECTION PLANTES. 1(2): 127-133 EN FR RU
- KOZAR, F.; KONSTANTINOVA, G. M. 1981*
THE SCALE INSECTS OF DECIDUOUS FRUIT ORCHARDS IN SOME EUROPEAN COUNTRIES. INFESTATIONS IN EUROPEAN ORCHARDS NO III. ACTA PHYTOPATHOLOGICA ACADEMIAE SCIENTARUM HUNGARICAE: 16 (1/2): 211-222
- KOZAR, F.; KOSZTARAB, M. 1982*
COCCOIDEA OF CENTRAL EUROPEAN FORESTS AND THEIR RELATIONSHIPS. ACTA MUSEI REGINAEHRADECENSIS S A SUPPLEMENTUM. p. 203-211

KOZARZHEVSKAYA, E. F.; KNYAZYATOVA, V. I. 1981
EFFECTIVENESS OF PYRETHROID PREPARATIONS. ZASCH RAST 6: 33 RU (PSEUDOCOCCUS
OBSCURUS)

KOZARZEVSKAJA, E.; VLAINIC, A. 1982
BIOLOGICAL ECOLOGICAL SURVEY OF SCALE INSECTS - PESTS OF CULTIVATED FLORA IN
BELGRADE. ZASTITA BILJA 33(2): 183-202 SH EN RU

LAL, S. S.; PILLAI, K. S. 1981
CASSAVA PESTS AND THEIR CONTROL IN SOUTHERN INDIA. TROPICAL PEST MANAGEMENT
27(4): 480-491 EN ES FR

LAMBDIN, P. L. 1979*
MORPHOLOGY AND SYSTEMATICS OF ASTEROLECANIUM VITTATUM, A NEW PIT SCALE SPECIES
FROM AUSTRALIA. ANN ESA 72(5): 669-672

LAMBDIN, P. L. 1983*
A NEW SPECIES OF SCALE INSECT, CEROCOCCUS GABONENSIS, FROM GABON. ANNALS ENTOMOL
SOC AMER 76(1): 75-77

LENTEREN, J. C. VAN; DEBACH, P. 1981
HOST DISCRIMINATION IN THREE ECTOPARASITES (APHYTIS COHENI, A. LINGNANENSIS AND A.
MELINUS) OF THE OLEANDER SCALE (ASPIDIOTUS NERII). NETHERLANDS J ZOOL 31(3):
504-532

LIEBIG, G.; SCHLIPF, U. 1982
HOW IS HONEYDEW FORMED FOR THE HONEYBEE IN THE FOREST? ALLGEMEINE
FORSTZIETSCRIFT 37(31): 928-931.

LINDQUIST, R. K. 1981
CONTROLLING THE CITRUS MEALYBUG ON GREENHOUSE FOLIAGE PLANTS. OHIO FLORISTS'
ASSOC BULL 622: 618

LINDQUIST, R. K. 1981
INTRODUCTION OF PREDATORS FOR INSECT AND MITE CONTROL ON COMMERCIAL INTERIOR
PLANTINGS. OHIO FLORISTS' ASSOC BULL 622: 5,8

LONSDALE, D.; PRATT, J. E. 1981
SOME ASPECTS OF THE GROWTH OF BEECH TREES AND THE INCIDENCE OF BEECH BARK DISEASE
ON CHALK SOILS. FORESTRY 54(2): 183-195

LUGARESI, C. 1982
DIASPIS PENTAGONA (PSEUDAULACASPIS PENTAGONA TARGIONI-TOZZETTI). INFORMATORE
FITOPATOLOGICO 32(3): 31-34 IT

MABANZA, J. 1981
SELECTION OF CASSAVA FOR DISEASE AND PEST RESISTANCE IN THE CONGO. IN TERRY, E.
R.: ODURO, K. A.; CAVENESS, E. TROPICAL ROOT CROPS, RES STRATEGIES FOR THE 1980S
INTERNAT DEVEL RES CENTRE, OTTAWA, CANADA 40-41 EN FR

MAHDIHASSAN, S. 1981
ECOLOGICAL NOTES ON A FEW HYMENOPTERA ASSOCIATED WITH LAC. PAK J SCI IND RES
24(4): 148-156

- MAHMOOD, R.; MOHYUDDIN, A. I.; KAZIMI, S. K. 1980*
 RASTROCOCCUS SPINOSUS AND ITS NATURAL ENEMIES IN PAKISTAN. PROC 1ST PAKISTAN
 CONGR ZOOL, B: 291-294
- MAKARYAN, S. R. 1980
 MORPHOLOGICAL CHARACTERISTICS OF THE SYMBIONTS OF THE ARARAT COCHINEAL. BIOL ZH
 ARM 33(9): 980-984 RS
- MARIN, L. R.; CISNEROS, V. F. H. 1980(1979)
 THE BLACK-SCALE INSECT OF CHERIMOYA, SAISSETIA NIGRA (HOMOPTERA: COCCIDAE).
 REVISTA PERUANA ENTOMOL 22(1): 103-110 ES EN
- MARTINEZ, Z.; DIAZ SANCHES, J. 1981
 COMPARATIVE BIOLOGICAL STUDY OF COCCUS VIRIDIS GREEN ON COFFEE AND CITRUS. CENTRO
 AGRICOLA 8(1): 67-73 ES EN
- MATESOVA, G. IA. 1981
 APPLES INJURED BY THE POPLAR SCALE INSECT GURYEV REGION, KAZAKR SSR. ZASHCHITA
 RASTENII. 1981(7): 47 RU
- MATILE-FERRORO, D. 1982*
 NOTE SUR LES ISCHNASPIS DOUGLAS & TRISCHNASPIS BEN-DOV AFROTROPICAUX &
 DESCRIPTIONS TROIS ESPECES NOUVELLES. REVUE FR ENT 4(2): 63-72
- MCCLURE, M. S. 1979
 SELF-REGULATION IN POPULATIONS OF THE ELONGATE HEMLOCK SCALE, FIORINIA EXTERNA:
 ROLE OF FOOD QUANTITY AND QUALITY. MISC PUB ENTOMOL SOC AMER 11(3), 49 PP
- MCFADYEN, R. E.; TOMLEY, A. J. 1981
 BIOLOGICAL CONTROL OF HARRISTA CACTUS, ERIOCEREUS MARTINII, IN QUEENSLAND BY THE
 MEALYBUG, HYPOGEOCOCCUS FESTERIANUS. PROC OF 5TH INTER SYMP ON BIOLOG CONTROL OF
 WEEDS. 589-594.
- MEHTA, U. K.; JAYANTHI, R.; DAVID, H. 1981
 OCCURRENCE OF PINK MEALYBUG ON CERTAIN EARLY MATURING SUGARCANE VARIETIES.
 PESTOLOGY 5(5): 9-12
- MEYERDIRK, D. E.; CHANDLER, L. D.; SUMMY, K. R.; HART, W. G. 1981
 SPATIAL DISTRIBUTION OF CITRUS MEALYBUG ON GRAPEFRUIT TREES PLANOCOCCUS CITRI. J
 ECON ENTOMOL 76: 662-664
- MEYERDIRK, D. E.; FRENCH, J. V.; HART, W. G. 1982
 EFFECT OF PESTICIDE RESIDUES ON THE NATURAL ENEMIES OF CITRUS MEALYBUG PLANOCOCCUS
 CITRI. ENVIRON ENT 11(1): 134-136
- MILENA VARELA, A.; BELLOTI, A. C.; REYES, J. A. 1979
 BIOLOGY AND ECOLOGY OF THE CASSAVA MEALYBUG PHENACOCCUS GOSSYPHII TOWNSEND &
 COCKERELL (HOMOPTERA: PSEUDOCOCCIDAE). REVISTA COLOMBIANA ENTOMOL 5(1/2): 9-15
 ES EN
- MILENA VARELA, A.; BELLOTI, A. C. 1982
 SOME ASPECTS OF THE BIOLOGY AND OBSERVATIONS OF A NEW MEALYBUG OF CASSAVA
 PHENACOCCUS HERRENI (HOMOPTERA: PSEUDOCOCCIDAE) IN COLOMBIA. REVISTA COLOMBIANA
 ENTOMOL 7(1/2): 21-26 ES EN

- MISRA, M. P.; PAWAR, A. D.; SINGH, R. 1980
FURTHER DISTRIBUTIONAL RECORDS OF SUGARCANE SCALE INSECT, MELANASPIS GLOMERATA (GREEN) FROM WEST BENGAL, NORTH BIHAR AND UTTAR PRADESH. INDIAN SUGAR CROPS J 7(4): 112-113
- MISRA, M. P.; PAWAR, A. D.; SAMUJR, R. 1981
FIELD TRIALS WITH SCALE INSECT PREDATORS IN EASTERN UTTAR PRADESH FOR BIOCONTROL OF SUGARCANE SCALE INSECT MELANASPIS GLOMERATA GREEN. INDIAN SUGAR CROPS J 8(1): 13-14
- MKRTCHYAN, L. P.; SARKISOV, R. N.; SARKISYAN, S. M. 1980
STRUCTURE TYPES OF COCCID OVARIES. BIOL ZH ARM 33(3): 279-282 RU
- MONACO, R. 1981
WHITE PEACH SCALE ON CHINESE GOOSEBERRY. INFORMATORE FITOPATOLOGICO 31(6): 29-31 IT
- MORAN, V. C. 1981
BELATED KUDOS FOR COCHINEAL INSECTS. ANTENNA 5(2): 54-58
- MORENO, R.; GARIJO, C. 1980
POPULATION DYNAMICS OF SAISSETIA OLEAE COLV. ON CITRUS. COMPARISON OF VARIOUS METHODS TO ESTIMATE ADULT DENSITY AT TREE LEVEL. BULL SERVICIO DEFENSE CONTRA PLAGAS INSPECCION FITOPATOLOGICA 6(1): 75-94. ES EN
- MORI, K.; UEDA, H. 1982
PHEROMONE SYNTHESIS, PART XLV. SYNTHESIS OF THE OPTICALLY ACTIVE FORMS OF 2,6-DIMETHYL-1,5-HEPTADIEN-3-OL ACETATE. THE PHEROMONE OF THE COMSTOCK MEALYBUG. TETRAHEDRON 37(15): 2581-2583
- MOSQUERA, P. F. 1982(1979)
SOME CONSIDERATIONS ON THE ECONOMIC DAMAGE OF THE CITRUS SNOW SCALE, UNASPIS CITRI. REVISTA COLOMBIANA ENTOMOL. 5(3/4): 53-56 ES EN
- MYARTSEVA, S. N. 1980
MICROTHERYS SPP HYMENOPTERA ENCYRTIDAE OF FAUNA FROM THE TURKMEN-SSR USSR IZV AKAD NAUK TURKM SSR SER BIOL NAUK (4): 43-53
- MYARTSEVA, S. N. 1981
A REVIEW OF ENCYRTIDS OF THE GENUS DISCODES FORSTER, 1865 (HYMENOPTERA, ENCYRTIDAE) OF THE FAUNA OF THE USSR WITH A DESCRIPTION OF NEW SPECIES FROM TURKMENIA. ENTOMOL OBOZRENIE 60(2): 364-379 RU EN
- MYARTSEVA, S. N. 1981
NEW PARASITE SPECIES HYMENOPTERA ENCYRTIDAE OF SCALE INSECTS AND LEAFHOPPERS HOMOPTERA COCCOIDEA AND PSYLLIDEA FROM THE TURKMEN-SSR USSR. IZV AKAD NAUK TURKM SSR SER BIOL NAUK (4): 18-26
- MYARTSEVA, S. N. 1981
NEW SPECIES OF ENCYRTIDAE IN TURKMANIA, PARASITIZING ON COCCIDS. IZVESTIIA AKADEMII NAUK TURKMENSKOI SSR: 70-77
- MYARTSEVA, S. N.; SUGONYAEV, E. S.; TRYAPITSYN, V. A. 1982
A NEW SPECIES OF PARASITIC HYMENOPTERA OF THE GENUS ANAGYRUS (HYMENOPTERA, ENCYRTIDAE) FROM IRAQ. ZOOLOGICHESKII ZHURNAL 61(1): 150-152 RU EN

- MYARTSEVA, S. N.; TRYAPITSYN, V. A. 1981
A NEW GENUS OF ENCYRTIDAE (HYMENOPTERA) FROM GEORGIA. ZOOLOGICAL ZHURNAL 60(4): 621-623 RU EN
- NAGARKATTI, S.; PATTAR, G. L. 1981
LABORATORY REARING OF FIORINIA THEAE AND F. PROBOSCIDARIA AND THEIR APHELINIDAE PARASITES. COLEMANIA 1(2): 127-128
- NAGORNAYA, I. M. 1981
A RAPID METHOD FOR DETERMINING THE MORTALITY OF COMSTOCK MEALYBUG EGGS PSEUDOCOCCUS COMSTOCKI AFTER FUMIGATION. VESTNIK ZOOLOGII 1981(3): 78-82 RS EN
- NASCIMENTO, A. S. 1981
PESTS OF CITRUS AND THEIR CONTROL. BOLETIM PESQUISA 1, 41 PP. PT
- NIKOLAISHVILI, A. A. 1980
SIGNIFICANCE OF THE PARASITE SIGNIPHORA MERCETI IN CURTAILING THE POPULATION OF THE CONVEX SCALE INSECT. SUBTROPICAL CULTURE (1):88-92 RU
- NKOUKA, N.; ONORE, G.; FABRES, G. 1981
CONTRIBUTION TO A SURVEY OF THE PHYTOPHAGOUS ARTHROPODS ON CASSAVA FOR THE PURPOSE OF IDENTIFYING THE INSECT VECTORS OF CASSAVA BLIGHT. CAHIERS ORSTOM, SERIE BIOLOGIE 44: 9-10 FR EN
- NUR, U. 1982*
DESTRUCTION OF SPECIFIC HETEROCHROMATIC CHROMOSOMES DURING SPERMATOGENESIS IN THE COMSTOCKIELLA CHROMOSOME SYSTEM. CHROMOSOMA 85: 519-530
- NWANZE, K. F. 1982
RELATIONSHIPS BETWEEN CASSAVA ROOT YIELDS AND CROP INFESTATIONS BY THE MEALYBUG, PHENACOCOCCUS MANIHOTI. TROPICAL PEST MANAGEMENT 28(1):27-32. EN ES FR
- OHKUBO, N. 1981
EFFECTS OF SPRAY OF MACHINE OIL ON THE POPULATION GROWTH OF THE ARROWHEAD SCALE, UNASPIS YANONENSIS KUWANA, A PEST OF CITRUS IN JAPAN. PROC ASSOC PLANT PROTECTION KYUSHU 27: 146-148 JA
- OTAKE, A. 1981
INSECTICIDES FRUIT TREES. JPN PESTIC INF 38: 29-30
- PACORA R. J. F. 1981(1980)
ZAGREUS HEXASTICTA (CRAMER)(COLEOPTA: COCCINELLIDAE) PREDATOR OF ORTHEZIA SPP. AND OTHER COCCOIDS. REVISTA PERUANA ENTOMOL 23(1): 111-116 ES EN
- PANIS, A. 1980
SOFT, HARD AND WAX SCALES IN THE SCOPE OF INTEGRATED CONTROL IN MEDITERRANEAN CITRUS CROPS. REV ZOOLOG AGRIC PATH VEG 1980: 12-22 FR EN
- PANIS, A. 1981*
LES COCHENILLES CIRCUM-MEDITERRANEANES DES ARBRES D'ALIGNEMENT ET BRISE-VENT. SIXIEMES PHYTIATRIE PHYTOPHARMACIA 1981: 435-445 FR
- PANIS, A. 1981*
NOTE SUR QUELQUES INSECTES AUXILIAIRES REGULATEURS DES POPULATIONS DE PSEUDOCOCCIDAE ET DE COCCIDAE DES AGRUMES EN PROVENCE ORIENTALE. FRUITS 36(1): 49-52

- PARIDA, B. B.; MOHARANA, S. 1981
SOMATIC CHROMOSOMES OF FIFTEEN SPECIES OF INDIAN SOFT AND ARMoured SCALES
CHROMOSOME INFORMATION SERVICE 11-13
- PARSONS, A. J. 1982
LONG-TAILED TITS FEEDING ON SCALE INSECTS. BRITISH BIRDS 75(8): 385
- PAWAR, M. B.; TELI, V. S.; AMBEKAR, J. S.; KALBHOR, S. E. 1981
EFFICACY OF SOME ORGANOPHOSPHORUS INSECTICIDES AGAINST SCALES, PULVINARIA PSIDII
MASKELL ON GUAVA PSIDIUM GUAVAJA. PESTOLOGY 5(9): 21-22
- PELEG, B. A. 1982
EFFECT OF A NEW INSECT GROWTH REGULATOR RO-13-5223 ETHYL-2-P-PHENOXYPHENOXYETHYL
CARBAMATE ON SCALE INSECTS CHRYSOMPHALUS AONIDUM, AONIDIELLA AURANTII, SAISSETIA
OLEAE, CEROPLASTES FLORIDENSIS PHYTOPARASITICA 10(1): 27-31
- PELEG, B. A.; GOTHILF, S. 1981
EFFECT OF INSECT GROWTH REGULATORS DIFLUBENZURON AND METHOPRENE ON SCALE INSECTS.
J ECON ENT 74(1): 124-126
- PENA, J. E.; WADDILL, V. 1982
PESTS OF CASSAVA MANIHOT ESCULENTA IN SOUTH FLORIDA USA. FLA ENTOMOL 65(1):
143-149
- PERRIN, R. 1981
BARK DISEASE OF THE FAGUS CAUSED BY NECTRIA COCCINEA AND CRYPTOCOCCUS. J
FORESTIER SUISSE 132(1): 1-16
- PETTY, G. J.; WEBSTER, C. S. 1981
IMPORTANCE OF SPRAY VOLUME FOR CONTROL OF MEALYBUG AND FLAT MITE IN PINEAPPLES.
INFORMATION BULL CITRUS SUBTROPICAL FRUIT RES INST 108: 7-8 EN AF
- PILIPIUK, V. I. 1981
A NEW SPECIES OF THE GENUS PSEUDAPHYCUS CLAVATUS (HYMENOPTERA, ENCYRTIDAE), A
PARASITE OF PHENACOCCLUS ACERIS (COCCIDAE) FROM THE SAKHALIN ISLAND USSR. ZOOL ZH.
60: 1423-1424 RU EN
- PODSIADLO, E. 1981
PARASITIC WASPS REARED FROM FEMALES OF THE GLOBOSE SCALE - SPHAEROLECANIUM
PRUNASTRI (FONSCOLOMBE) IN WARSAW. POLSKIE PISMO ENTOMOL 51(1): 153-158 PL EN
- PODSIADLO, E. 1981
LITTLE KNOWN AND NEW POLISH CHALCIDOIDEA AND PROCTOTRUPOIDEA (HYMENOPTERA),
PARASITES OF COCCOIDEA. POLSKIE PISMO ENTOMOL 51(1): 159-162
- PRADHAN, S. B. 1981
RICE MEALYBUG AND ITS ALTERNATE HOST PLANTS. INTERNATIONAL RICE RES NEWSLETTER
6(4): 11-12
- PRASAD, S.; SINGH, D. R. 1981
EFFECT OF TEMPERATURE ON THE EFFECTIVENESS OF ORGANIC INSECTICIDES AGAINST FEMALE
MEALY BUGS, DROSICHA STEBBINGI. COMP PHYSIOL ECOL 7: 160-161
- PRINSLOO, G. L. 1981
ANNOTATED RECORDS OF ECONOMICALLY IMPORTANT CHALCIDOIDEA FROM SOUTH AFRICA. NEW
COCCOID HOST AND HOST PLANT RECORDS. PHYTOPHYLACTICA 13(2): 101-104

- PRINSLOO, G. L.; MYNHARDT, M. J. 1981
ON TWO ENCYRTIDAE PARASITES (HYMENOPTERA: CHALCIDOIDEA) OF THE RHODES-GRASS SCALE, ANTONINA GRAMINIS (MASKELL) IN SOUTH AFRICA. J ENTOMOL SOC SOUTHERN AFR 44(2): 325-330
- PRINSLOO, G. L.; MYNHARDT, M. J. 1981
NEW SPECIES OF COCCOID INHABITING ENCYRTIDAE (HYMENOPTERA: CHALCIDOIDEA) FROM SOUTH AFRICA. PHYTOPHYLACTICA 13(3): 149-154. EN AF FR (ERIOCOCCUS COCCINEUS)
- QUADRI N.U.N.; MAHDIHASSAN, S. 1981
PUPAL AND PRE PUPAL STAGES OF THE MALE SIND LAC INSECT KERRIA SINDICA. PAK J SCI IND RES 24(2): 74-76
- RAILIAN, N. N. 1980
PSEUDOCOCCUS COMSTOCKI, A DANGEROUS QUARANTINE PEST. SADOVODSTVO VINOGRADARSTVO I VINODELIE MOLDAVII 1980 (10): 37-38
- RAJENDRA, S.; PANDEY, R. K.; KUMAR, A.; SINHA, T. B. 1982
FIRST RECORD OF COCCOPHAGUS SILVESTRII COMPERE FROM INDIA PARASITIZING ON A NEW HOST, THE SOFT BROWN SCALE, COCCUS HESPERIDUM. CURR SCI 51(3): 149
- RAO, B. R. S. 1980
BOTRYOIDECLAVA BHARATIYA, GEN. AND SP. NOV. AND A NEW SPECIES OF ERIAPHYTIS HAYAT FROM INDIA (HYMENOPTERA: APHELINIDAE). ORIENTAL INSECTS 14(1): 41-45.
- RAO, C. S.; RAO, S. V.; RAO, B. H. K. 1981(1980)
RESIDUES OF ALDICARB APPLIED FOR CONTROL OF SCALE IN SUGARCANE. INDIAN J PLANT PROT 8(2): 170-171
- RAY, C. H., JR.; WILLIAMS, M. L. 1983*
DESCRIPTIONS OF THE IMMATURE STAGES AND ADULT MALE OF NEOLECANIUM CORNUPARVUM. PROC ENTOMOL SOC WASH 85(1): 161-173
- RAY, C. H. JR; WILLIAMS, M. L. 1981
DESCRIPTIONS OF THE IMMATURE STAGES OF PROTOPULVINARIA PYRIFORMIS (COCKERELL). TAXONOMY FLA ENTOMOL 65(1): 169-176
- RIZIK, G. N.; MOHAMMED, O. S. 1981
ECOLOGICAL STUDIES ON THE OLIVE SCALE INSECT LEUCASPIS RICCAE IN IRAQ. AIN SHAMS UNIV FAC AGRIC RES BULL 1-12
- ROMANCHENKO, A. A.; BEL'SKAIA, N. M. 1981
THE COMSTOCK MEALYBUG PSEUDOCOCCUS COMSTOCKI IN THE ODESSA REGION UKRAINIAN SSR. ZASHCH RAST (4): 41 RU
- ROSSEM, G., VAN; BURGER, H. C.; GOFFAU, L. J. W. DE 1982
UNUSUAL INFESTATION BY INSECTS IN 1981. ENTOMOLOGISCHE BERICHTEN 42(6): 84-87. NL EN
- ROTUNDO, G.; TREMBLAY, E. 1981*
EVALUATION OF THE DAILY RATE OF SEX PHEROMONE RELEASE BY THE FEMALES OF TWO MEALYBUG SPECIES. BOLL LAB ENT AGR 37: 167-170
- ROTUNDO, G.; TREMBLAY, E. 1981*
SCENT TRAILING BY VIRGIN FEMALES OF PSEUDOCOCCUS CALCEOLARIAE. JOUR CHEM ECOL 7(1): 86-88

- ROTUNDO, G.; TREMBLAY, E. 1982*
HYBRIDIZATION AND SEX PHEROMONE RESPONSES IN TWO CLOSELY RELATED MEALYBUG SPECIES
PLANOCOCCUS CITRI, PLANOCOCCUS FICUS COLLECTED FROM CITRUS PLANTS AND GRAPEVINES,
ITALY. SYST ENTOMOL 7(4): 475-478
- ROUX, D. P. LE 1981
AGRICULTURAL RESEARCH 1980. REPT DEPT AGRIC TECH SERV S AFR 7, 239 PP EN AF
- RUSSELL, L. M. 1982
THE HABITS AND APPEARANCE OF A RARE MEALYBUG, EURYOCCUS BLANCHARDII (KING AND
COCKERELL). PROC ENTOMOL SOC WASH 84(2): 410-411
- SAAD, A. H.; RIZK, G. N.; YOUNIS, H. Y. 1981
STUDIES ON THE MODE OF REPRODUCTION IN EXAEROTOPUS TRITICI. AINS SHAMS UNIV FAC
AGRIC RES BULL 4 PP
- SAMPO, A.; OLMÍ, M. 1979*
BIOLOGIA DI PUTO ANTENNATUS (SIGNORET) SU PINUS CEMBRA L. E PICEA ABIES L. IN
VALLE D'AOSTA (ITALIA). BOLL LAB ENT AGR 36: 172-178
- SAMWAYS, M. J. 1981
COMPARISON OF ANT COMMUNITY STRUCTURE IN CITRUS ORCHARDS UNDER CHEMICAL AND
BIOLOGICAL CONTROL OF RED SCALE, AONIDIELLA AURANTII (MASKELL). BULL ENTOMOL RES
71(4): 663-670
- SANDHU, G.S.; BATRA, R.C.; SOHI, A.S.; BHALLA, J.S. 1981(1980)
COMPARISON OF DIFFERENT BANDS FOR THE CONTROL OF MANGO MEALY-BUG, DROSICHA
MANGIFERAE GREEN. J RES PUNJAB AGRIC UNIV 17(3): 286-290
- SARKISOV, R. N.; MKRTCHYAN, L. P. 1981
DIGESTIVE SYSTEM OF ARARAT COCHINEAL. BIOL ZH ARM 34(6): 633-636 RU
- SARKISOV, R. N.; SARKISYAN, S. M.; MKRTCHYAN, L. P. 1980
DEPENDENCE OF BIOMASS OUTPUT ON THE ARARAT COCHINEAL ON THE COLLECTION METHOD AND
THE EGG LAYING INFECTIVITY LEVEL OF FODDER PLANTS. BIOL ZH ARM 33(9): 995-997
- SCALTRITI, G.; PELLIZZARI, ANTONUCCI, A. 1982
NOTES ON SOME INSECTS INJURIOUS TO ACTINDIA CROPS. INFORMATORE FITOPATOLOGICO
32(3): 47-48 IT EN
- SCHICHA, E. 1981
TWO NEW SPECIES OF AMBLYSEIUS BERLESE FROM QUEENSLAND AND NEW CALEDONIA COMPARED
WITH A. LARGOENSIS (MUMA) FROM THE SOUTH PACIFIC AND A. DELEONI MUMA AND DENMARK
FROM NEW SOUTH WALES (ACARI: PHYTOSEIIDAE). J AUSTRALIAN ENTOMOL SOC 20(2):
101-109
- SCHOONEES, J.; GILIOME, J. H. 1982*
THE TOXICITY OF METHIDATHION AND CITRUS SPRAY OIL TO MATURE AND IMMATURE STAGES OF
OP-RESISTANT AND SUSCEPTIBLE RED SCALE, AONIDIELLA AURANTII. J ENTOMOL SOC
SOUTHERN AFRICA 45(1): 1-13
- SCHULTZ, P. B.; PARNELL, L. A. 1981
AN OUTBREAK OF 2 SPECIES OF LECANIUM SCALE AND THEIR ASSOCIATED PREDATORS. VA J
SCI 32(3): 79

- SEGHATOLESLAMI, H. 1980
SOME COMPLEMENTARY STUDIES ON SAN JOSE SCALE IN BANDAR ANZALI (GUILAN PROVINCE).
ENTOMOL ET PHYTOPATHOLOGIE APLIQUEES 48: 149-154 PER EN
- SEN, P.; MAURYA, R. C.; GOKULPURE, R. S. 1981
ON SOME HOSTS OF LAC INSECT, KERRIA LACCA (KERR). INDIAN FORESTER 107(9): 583-584
- SHUKLA, G. S.; TRIPATHI, N. 1981
EFFECT OF WATER SHOOT REMOVAL AND STUBBLE SHAVING ON SUGARCANE SCALE INSECT
MELANASPIS GLOMERATA. J ADV ZOOL 2(2): 118-120
- SINGH, R.; CHAUDHARY, D. 1982
ANTAGONISTIC EFFECT OF SOME INSECTICIDES AGAINST MANGO MEALYBUG DROSICHA
STEBBINGI. GLOBIOS 9(1): 15-17
- SINGH, T. P. 1981
BREEDING CASSAVA RESISTANCE TO PESTS AND DISEASES IN ZAIRE. IN TERRY, E. E.:
ODURO, K. A.; CAVENESS, F. TROPICAL ROOT CROPS; RESEARCH STRATEGIES FOR THE
1980S. INTERNAT DEVEL RES CENTRE OTTAWA, CANADA 37-39 EN FR
- SPEIGHT, M. R. 1981
TREE PESTS. 5. BEECH SCALE (CRYPTOCOCCUS FAGISUGA LIND) AND AMBROSIA BEETLE
(XYLOTERUS DOMESTICUM (L)). ARBORICULTURAL J 5(1/2): 143-146
- SRIVASTAVA, R. P. 1981
COMPARATIVE EFFICACY OF INSECTICIDES AGAINST ADULTS OF MANGO MEALY BUG, DROSICHA
MANGIFERAE GREEN UNDER FIELD CONDITIONS. INDIAN J OF ENTOMOL 43(2): 148-152
- SRIVASTAVA, R. P. 1981
COMPARATIVE EFFICACY OF VARIOUS INSECTICIDAL DUSTS AGAINST OF MANGO MEALY BUG
EGGS. INDIAN J ENTOMOL 43(2): 225-229
- SRIVASTAVA, R. P. 1981
RELATIVE TOXICITY OF INSECTICIDES AGAINST ADULTS OF MANGO MEALY BUG. INDIAN J
ENTOMOL 43(2): 210-212
- SRIVASTAVA, R. P.; MEHRA, B. P. 1980
STUDIES ON THE ABUNDANCE OF VARIOUS INSECTS ASSOCIATED WITH THE INDIAN LAC INSECT
KERRIA LACCA (KERR). INDIAN J ECOL 7(1): 96-104
- SRIVASTAVA, R. P.; TANDON, P. L. 1981
RELATIVE TOXICITY OF INSECTICIDES TO THE SECOND INSTAR OF MANGO MEALY BUG,
DROSICHA MANGIFERAE GREEN NYMPHS. INDIAN J ENTOMOL 43(2): 193-195
- STIMMEL, J. F. 1981
FIRST RECORD OF THE RED PINE SCALE MATSUCOCCUS RESINOSAE FROM PENNSYLVANIA. PROC
ENTOMOL SOC WASH 83(4): 804
- STIMMEL, J. F. 1982
SEASONAL HISTORY OF THE WHITE PEACH SCALE, PSEUDAULACASPIS PENTAGONA IN
NORTHEASTERN PENNSYLVANIA. PROC ENTOMOL SOC WASH 84(1): 128-133
- SU, T. H. 1982
LIST OF THE MANGO MANGIFERA INDICA COCCOIDEA HOMOPTERA STERNORRHYNCHA IN TAIWAN.
PROC NAT SCI COUNC REPUB CHINA PART A APPL SCI 6(1): 60-63

- SUGONYAEV, E. S.; GORDH, G. 1981
TAXONOMY AND TROPHIC RELATIONS OF ENCYRTIDS OF THE GENUS ENCYRTUS LATR.
ENTOMOLOGICHESKOE OBOZRENIYE 60(4): 883-897 RU EN
- SWAILEM, C. M.; ISMAIL, I. I.; AHMED, N. M. A. S. 1980(1976)
POPULATION STUDIES ON THE CITRUS WAS SCALE INSECT CEROPLASTES FLORIDENSIS
COMSTOCK, IN DIFFERENT REGIONS IN EGYPT. BULL ENTOMOL SOC EGYPT 60: 229-237
- SWART, P. L. 1981
VINE MEALYBUG: CHEMICAL MANAGEMENT ON TABLE GRAPES. DECIDUOUS FRUIT GROWER
31(7): 260-265 EN AF
- TACHIKAWA, T. 1981
REDISCOVERY OF PHYSCUS FULVUS COMPERE AND ANNECKE FROM SZECHWAN, CHINA
(HYMENOPTERA: CHALCIDOIDEA APHELINIDAE). TRANS SHIKOKU ENTOMOL SOC 15(3/4):
179-181 EN
- TACHIKAWA, T.; PAIK, W. H.; PAIK, J. C. 1981
A NEW SPECIES OF THE GENUS CAENOHOMALOPODA TACHIKAWA PARASITIC ON ODONASPIS
SECRETA FROM KOREA TRANS SHIKOKU ENTOMOL SOC 15(3/4): 183-186
- TAKAGI, K.; ROSEN, D. 1981
NOTE ON THE SPECIES OF APHYTIS OCCURRING IN JAPAN. KONTYU 49(2): 314-321
- TAKAGI, S.; TANG, F. T. 1982*
A NEW SCALE INSECT OF THE QUERNASPIS GROUP FROM CHINA. KONTYU 50(1): 100-103.
- TANAKA, M. 1981
INTRODUCED PARASITES OF THE ARROWHEAD SCALE INSECT, UNASPIS YANONENSIS (KUWANA)
FROM CHINA. A RECORD OF THEIR INTRODUCTION AND PROSPECTIVE RESULTS OF THEIR
EFFICIENCY. PROC ASSOC PLANT PROT KYUSHU 27: 165-166 JA EN
- TANASIICHUK, V. N. 1981
MATERIALS FOR THE RED BOOK OF THE USSR ON INSECTS. ENTOMOL OBOZR 60(3): 699-711
- TANG, F. T. 1981
A NEW GENUS AND THREE NEW SPECIES OF DIASPIDAE FROM CHINA. ENTOMOTAXONOMIA 3(1):
49-55. CH EN
- TASSAN, R. L.; HAGEN, K. S.; CASSIDY, D. V. 1982*
IMPORTED NATURAL ENEMIES ESTABLISHED AGAINST ICE PLANT SCALES IN CALIFORNIA.
CALIFORNIA AGRIC 1982: 16-17
- TERRY, E. R.; ODURO, K. A.; CAVENESS, F. (EDITORS) 1981
TROPICAL ROOT CROPS: RESEARCH STRATEGIES FOR THE 1980S. PROC FIRST TRIENNIAL
ROOT CROPS SYMPOSIUM INTERNATIONAL SOCIETY TROPICAL ROOT CROPS - AFRICA BRANCH.
279 PP
- TRANFAGLIA, A. 1981*
NOTES ON THE MORPHOLOGY AND SYSTEMATICS OF SOME SPECIES OF SCALE INSECTS WITH A
DESCRIPTION OF THREE NEW SPECIES OF PSEUCOCOCCIDS. BOLL LAB ENTOMOL AGRARIA
FILIPPO SILVESTRI 38: 3-18 IT EN
- TRANFAGLIA, A.; TREMBLAY, E. 1982*
A MORPHOLOGICAL COMPARISON BETWEEN PLANOCOCCUS CITRI, PLANOCOCCUS FICUS AND THEIR
F₁ HYBRIDS. ENTOMOTAXONOMIA IV(1-2): 1-5

- TREMBLAY, E.; TRIPODI, G. 1980*
ULTRASTRUCTURAL DATA ON PSEUDOCOCCID ENDOSYMBIOTS. ENDOCYTOBIOLOGY 1: 420-423
- TRENCH, G.; PAVLOV, A. 1981
HEMISARCOPTES MALUS SHIMER - A PREDATORY MITE ON LEPIDOSAPHES ULMI L. GRADINARSKA I LOZARSKA NAUK 18(2): 35-37 BG EN RU
- TRIPATHI, N.; SHUKLA, G. S. 1982
EFFECT OF TEMPERATURE ON THE ESTABLISHMENT AND DEVELOPMENT OF CRAWLERS OF SUGARCANE SCALE INSECT, MELANASPIS GLOMERATA (GREEN). COMPARATIVE PHYSIOLOGY ECOLOGY 7(2): 83-84
- TRYAPITSYN, V. A. 1981
POSSIBILITIES OF THE INTRODUCTION INTO THE USSR OF PARASITIC CHALCIDS - NATURAL ENEMIES OF PESTS OF AGRICULTURAL CROPS. ENTOMOLOGICHESKOE OBOZRENIE 60(3): 484-493 RU EN
- UCHIDA, M.; NAKAGAWA, K.; NEGISHI, T.; ASANO, S.; MORI, K. 1981
THE PHEROMONE OF THE COMSTOCK MEALYBUG PSEUDOCOCCUS COMSTOCKI KUWANA AND ITS ANALOGS. AGRIC BIOL CHEM 45(2): 369-372
- VARSHNEY, R. K. 1982*
FERRISIA LOBDELLAE, A NEW NAME FOR FERRISIA SETOSA. PROC ENTOMOL SOC WASH 84(20): 857-858
- VARSHNEY, R. K. 1982*
ON SOME PSEUDOCOCCIDS FROM THE ANDAMAN ISLANDS. REC ZOOL SURV INDIA 80: 107-109
- VASCONCELLOS, H. O.; CRUZ, C. A.; OLIVIERA, A. M. 1980
EVALUATION OF THE REPRODUCTIVE CAPACITY OF ORTHEZIA PRAELONGA DOUGLAS, 1891, IN THE LABORATORY AND INSECTARY ENVIRONMENT. ANAIS SOCIEDADE ENTOMOLOGICA BRASIL 9(2): 189-197 PT EN
- VAZIRANI, T. G. 1982
SUKUNAHIKONA POPEI SP. N. (COCCINELLIDAE) FEEDING ON SCALE INSECTS. BULL ENTOMOL RES 72(1): 29-32
- VIGGIANI, G. 1981
RECENT FINDINGS ON INTEGRATED CONTROL IN OLIVE GROVES. INFORMATORE FITOPATHOLOGICO 31(1/2): 37-43 IT EN
- VIGGIANI, G. 1981
INTEGRATED CONTROL IN THE OLIVE GROVE. NOTE DIVULGATIVE, ISTITUTO ENTOMOL AGRARIA, UNIVERSITA NAPOLI 19: 13 PP IT
- VILLIERS, E. A. DE; TOIT, W. J. DU 1981
CHEMICAL CONTROL OF MANGO SCALE, AULACASPIS TUBERCULARIS. INFORMATION BULL CITRUS SUBTROPICAL FRUIT RES INST 102: 9-13 AF EN
- VINIS, G. 1981
ACANTHOMYITILUS HUNGARICUS SP. N. AND SOME NEW SCALE INSECTS IN THE HUNGARIAN FAUNA. FOLIA ENTOMOLOGICA HUNGARICA 34(1): 203-207
- VINIS, G.; KOZAR, F. 1981.*
POLYMORPHISM IN THE MALE OF POLYSTOMOPHORA OSTIAPLURIMA KIRITCHENKO, 1940, DESCRIPTION OF ALL STAGES AND BIOLOGY. FOLIA ENTOMOLOGICA HUNGARICA 34(1): 209-221.

- WANG, T. C. 1982
DESCRIPTION OF A NEW GENUS AND A NEW SPECIES OF LECANODIASPIDIDAE. ACTA
ENTOMOLOGICA SINICA 25(1): 85-88 CH EN
- WANG, T. C.; YAO, T. F.; TEUI, S. Y.; LIANG, Z. J. 1982
A NEW SPECIES OF LACCIFER, WITH PRELIMINARY STUDIES ON THE BIOLOGICAL
CHARACTERISTICS. LIN YEH K'O HSUEH, SCIENTIA SILVAE SINICAE 18(1) CH
- WANG, T. C. 1982
A STUDY ON THE CHINESE PARAPUTO AND HELIOCOCCUS WITH DESCRIPTIONS OF NEW SPECIES.
ACTA ENTOMOL SIN 25(3): 315-320
- WANGBERG, J. K. 1982*
DESTRUCTIVE AND POTENTIALLY DESTRUCTIVE INSECTS OF SNAKEWEED IN WESTERN TEXAS AND
EASTERN NEW MEXICO AND A DIORISTIC MODEL OF THEIR BIOTIC INTERACTIONS. J RANGE
MGMT 35(2): 23-40
- WASHBURN, J.; FRANKIE, G. W.; HAGEN, K. S.; KOEHLER, C. S. 1982
ECOLOGY AND BIOLOGICAL CONTROL OF ICEPLANT SCALE, IN CALIFORNIA. CALIFORNIA UNIV.
FED. HIGHWAY ADMIN. RPT NO. 31982, 38 PP
- WILK, B. M.; KITAYAMA, C. Y. 1981
HOST STAE PREFERENCE FOR DEPOSITION OF MALE EGGS BY COCCOPHAGUS COWPERI (HYM:
APHELINIDAE). ENTOMOPHAGA 26(3): 313-318 EN FR
- WILLIAMS, D. J. 1982*
THE DISTRIBUTION OF THE MEALYBUG GENUS PLANOCOCCUS IN MELANESIA, POLYNESIA AND
KIRIBATI. BULL ENTOMOL RES 72(3): 441-455
- WILLIAMS, D. J. 1982*
THE SCALE INSECT ARCTORHEZIA CATAPHRACTA IN THE MUSEUM AND ART GALLERY, PERTH, AND
A DISCUSSION OF E. OLAFSEN'S REISE IGIENNEM ISLAND. ENTOMOL MONTHLY MAG 118: 27-28
- WILLIAMS, D. J. 1982
PULVINARIA ICERYI AND ITS ALLIES ON SUGARCANE AND OTHER GRASSES. BULL ENTOMOL RES
72(1): 111-117
- WILLIAMS, D. J. 1982
THE DISTRIBUTION AND SYNONYMY OF COCCUS CELATUS DE LOTTO AND ITS IMPORTANCE ON
COFFEE IN PAPUA NEW GUINEA. BULL ENTOMOL RES 72(1): 107-109
- WILLIAMS, D. J.; COX, J. M.; YASEEN, M. 1981*
THE CASSAVA MEALYBUG AND ITS PARASITES IN PARAGUAY AND BOLOVIA. BIOCONTROL NEWS
INFORMATION 2(2): 88
- WILLIAMS, D. J.; RADUNZ, A. J.; BROOKES, H. M. 1981*
THE RICE MEALYBUG NOW RECORDED FROM AUSTRALIA AND PAPUA NEW GUINEA. J AUST ENT
SOC 20: 46
- XU, G. 1981
A NEW SPECIES OF PARALEPIDOSAPHES ON GARDEN TREES FROM CHINA. ENTOMOTAXONOMIA
3(2): 133-135 CH EN
- XU, G. T. 1982
STUDY ON INSULASPIS PINI (MASK.). SCIENTIA SILVAE SINICAE: 314-316

YASUDA, S. 1981

NATURAL ENEMIES OF PSEUDALACASPIS PENTAGONA TARGIONI AND THEIR SEASONAL PREVALENCE. JAPANESE J APPLIED ENTOMOL ZOOL 25(4): 236-243

YENSEN, N.; YENSEN, E.; YENSEN, D. 1980*

INTERIDAL ANTS FROM THE GULF OF CALIFORNIA, MEXICO. ANNALS OF ENTOMOL SOC AMER 73(3): 266-269

YORSTON, J. M.; MCMULLEN, R. D.; SLYKHUIS, J. T.; WELSH, M. F. 1981

LITTLE CHERRY DISEASE IN BRITISH COLUMBIA. BRITISH COLUMBIA MINISTRY AGRIC FOOD 81(4), 6 PP

